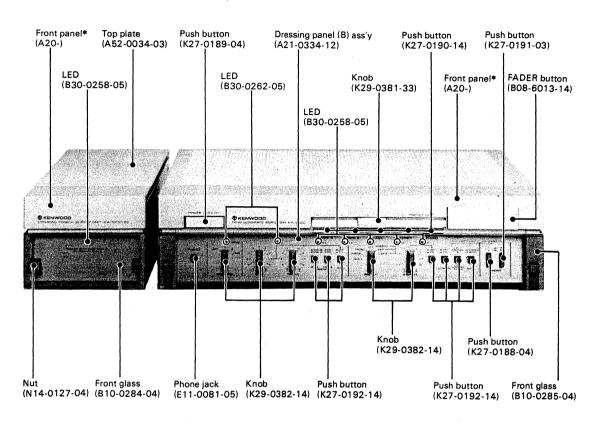
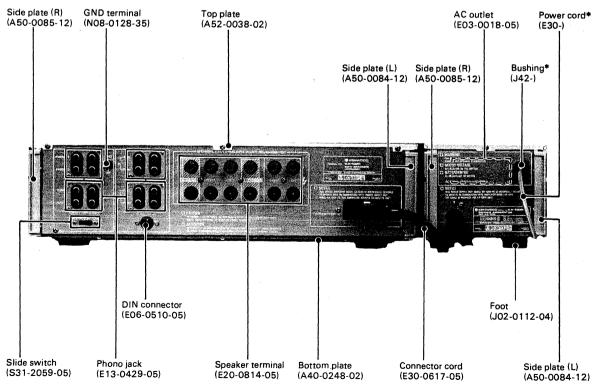
PKENWOOD KA-1000

NEW SEPARATE AMPLIFIER



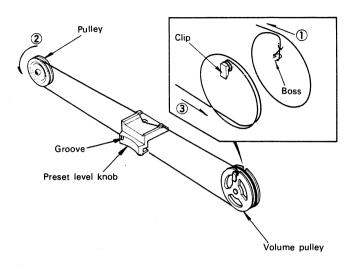


*Refer to Parts List on page 10. This photo is E type.



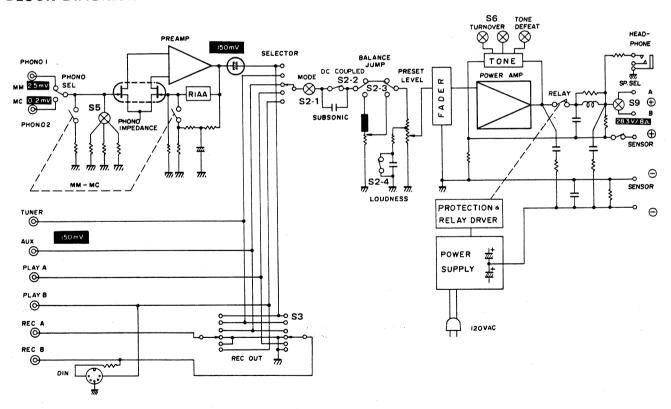
DIAL CORD STRINGING/BLOCK DIAGRAM

DIAL CORD STRINGING



- 1. Tie the dial cord to the boss of volume pulley.
- 2. Set volume pulley to the volume shaft and turn it counterclockwise till it stops.
- 3. Dress the dial cord to volume pulley counterclockwise 1 turn starting from the upper side as shown (①).
- 4. Stretch and hook the dial cord to the pulley and dress it to the volume pulley from the lower side 1 and a half turn (② ③).
- 5. Be sure to wind the end of the dial cord firmly to the clip of the volume pulley, so that it is tightly stretched.
- 6. Make sure that volume pulley is fully turned counterclockwise and fix the preset level knob by adhesive. Check that the groove of the preset level knob aligns with the O mark on the panel.

BLOCK DIAGRAM

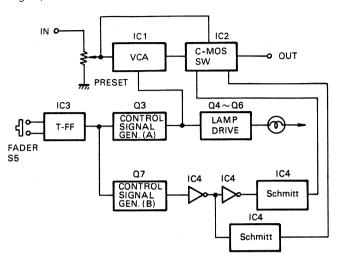




CIRCUIT DESCRIPTION

FADER Circuit

The block diagram of the FADER circuit is shown below. When the power is turned on, it automatically fades in to the preset level. After then, fader effect can be obtained by a light push on the FADER button.



The output of T-type flip flop changes its state every time the FADER button is pressed. The state of the output, either high or low level, determines the function. This state is sent to control signal generators (CSG) (A) and (B). The CSG (A) will output the signal for the voltage controlled amplifier (VCA) and lamp driver to decrease or increase sound voltage and brightness, respectively. The CGS (B) outputs a control signal for C-MOS switches to select either of the direct signal or voltage controlled signal.

Protection Circuit for Misconnected Sigma Cord

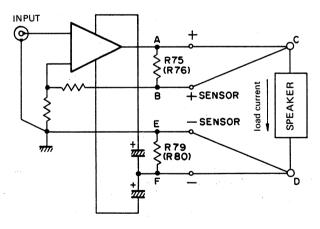


Fig. 1

Simplified schematic diagram is shown above. In this diagram, resistors R75, 79 are by-pass resistors which will let the amplifier work as an conventional amplifier in case the sigma sensor cord has been detached.

When one of the four normally connected sigma speaker cord (+, -, + Σ sensor, - Σ sensor) is detached by mistake or by accident, the following protection will go in effect.

In the following description sigma speaker cords are first correctly connected to each terminal. Also, speaker selector is set to A for Σ drive. In this condition, the load current passage will be A \rightarrow C \rightarrow D \rightarrow F.

(1) When only + signal cord is detached: In this case, load current passage will be A → B → C → D → F. For R75 to withstand the power and not to be burned, the following calculation is done to figure out the value.

Suppose the power consumption to be 1 watt.

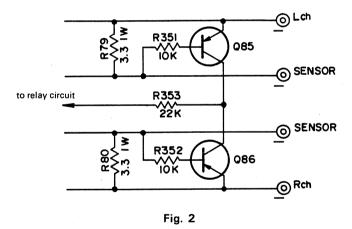
$$P = \frac{V^{2}}{R} \qquad R = \frac{V^{2}}{P}$$

$$V = 25 (V) \qquad P = 1 (W)$$

$$\therefore R = 625 (\Omega)$$

In the actual circuit, 560Ω 2W is used. Since this 560Ω will be in series to the speaker (8 Ω), sound level will greatly drop.

- (2) When only $+\Sigma$ sensor or $-\Sigma$ sensor cord is detached: In this case, load current passage will be A \to C \to D \to F. Even if sigma sensor cord has been detached, NFB loop is completed through by-pass resistor R75 or R79. Thus this amplifier will act as a conventional amplifier.
- (3) When—signal cord is detached: In this case, load current passage will be A → C → D → E → F. Since R79 is 3.3Ω, almost the same power will be consumed.

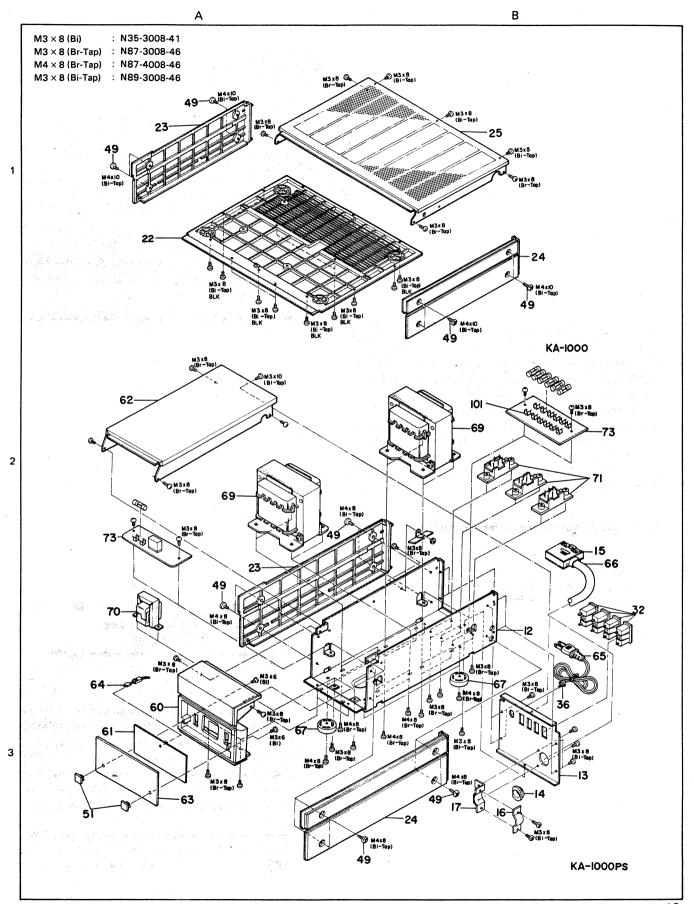


When a great power is consumed at R79 (3.3 Ω), in another words when VBE of Q85 exceeds 0.6V, Q85 is turned ON. This will activate Q66 to cut the relay OFF. This protection circuit works as a kind of a limiter. For this reason, relay will recover in a short time. Unless the detached—signal cord is correctly connected, relay will repeat ON-OFF routine and prevents R79 to be burned.

For detail of C-MOS analog switch IC, voltage controlled amplifier IC (AN5733), voltage regulator using FET and T flip-flop (DN819), refer to KA-800 Service Manual.



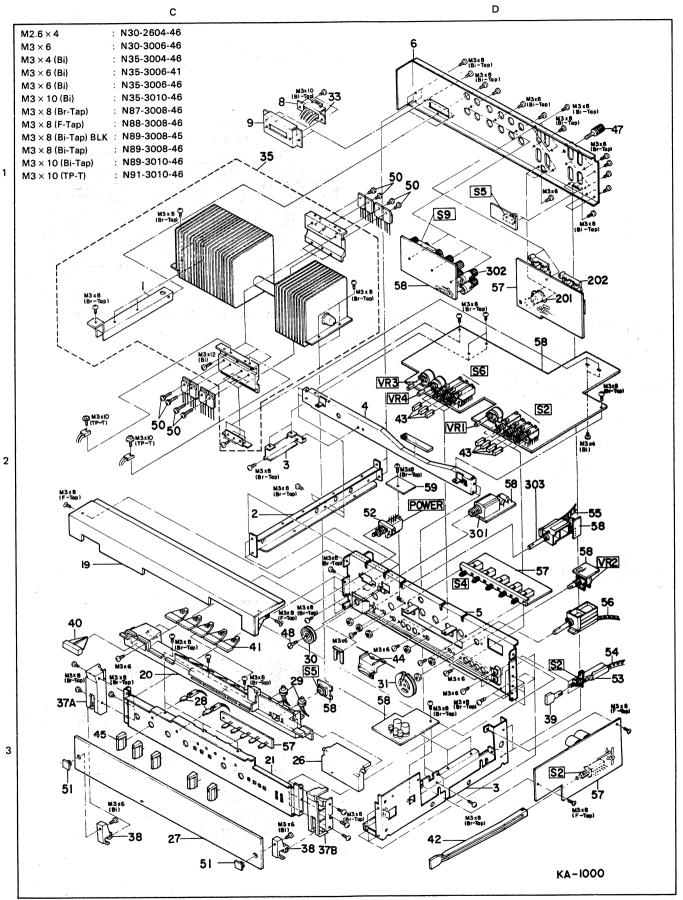
EXPLODED VIEW



Refer to parts list on page 10.



EXPLODED VIEW

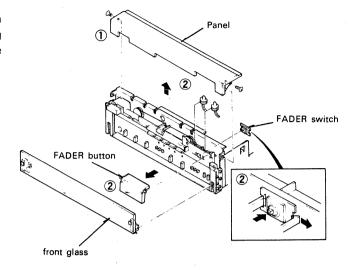


Refer to parts list on page 10.

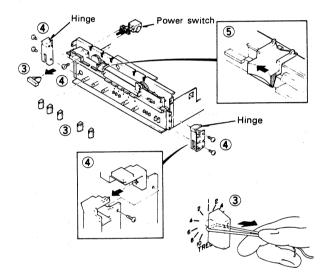


DISASSEMBLY FOR REPLACEMENT

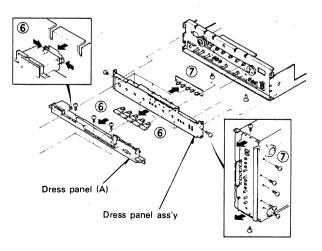
- 1. Remove side plate, top plate, panel and the front glass.
- Remove FADER button and FADER lamp. Now, you can remove the FADER switch (S5) pc board by spreading the claws outward and pushing the switch from the front.



- Remove the power switch button and knobs for BASS, TREBLE, BALANCE etc. by pulling them toward yourself. If they cannot be removed by hand, wind a covered wire around the shaft and pull.
- 4. Remove screws of the power switch. Remove screws at the side of the hinge and pull it to the direction of the arrow as shown. This hinge serves as a rivet to hold dress panel (A) to the chassis. For this reason, please proceed after you remove this hinge.
- 5. Preset level knob can be removed after the adhesive is taken off and slided to the left.



- 6. Remove dress panel (A) by pinching the claws inward and pushing it toward the front. Now, INPUT selector button can be removed.
- Remove 5 screws at the front side of the bottom plate, also 2 screws at sides of dress panel ass'y and pull frontward. Now LED pc board for INPUT selector can be removed.







ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

OFFSET AND IDLE CURRENT

- Before adjustments -

This adjustment must be done without dummy load connected.

- 1. Remove top cover.
- 2. This amplifier uses heat pipe. For this reason, amplifier must be kept horizontal for accurate adjustment.
- 3. Before turning the power ON, turn potentiometers VR7 and 8 fully counterclockwise.
- 4. Set preset level to 0.
- 5. Follow steps 6 through 10 within 1 minute, after you turn the power ON.

REGLAGES

DECALAGE ET COURANT DE POLARISATION

Avant les réglages —

Ce réglage sera effectué sans connecter l'antenne artificielle.

- 1. Retirer le couvercle du haut.
- 2. Cet amplificateur est équipé d'un caloduc. Il faudra donc maintenir l'amplificateur à l'horizontale pour obtenir un réglage précis.
- 3. Avant avoir placé l'appareil sous tension, tourner les potentiomètres VR7 et 8 à fond dans le sens invers de celui des aiguilles d'une montre.
- 4. Régler PRESET LEVEL au O.
- 5. Procéder aux opérations 6 à 10 dans 1 minute, après avoir placé l'appareil sous tension.

- Adjustment -

- 6. Connect a DC voltmeter between TP1 and 3 (TP2 and 4 for right channel) of preamp unit (X08-185*-**).
- Adjust VR1 (VR2) for a OV reading of the DC voltmeter (PREAMP OFFSET).
- 8. Connect a DC voltmeter to speaker terminals.
- 9. Set the SPEAKERS switch to A+B and the PRESET LEVEL to 0.
- Adjust CENTER ADJ VR5 (VR6) for OV reading of the DC voltmeter (AUDIO AMP OFFSET).
- 11. Connect a DC voltmeter between TP25 and 23 (TP26 and 24) of audio amp unit (X09-160*-**).
- 12. After 2 minutes adjust IDLE ADJ VR7 (VR8) for 2 \sim 3 mV reading of the DC voltmeter (IDLE CURRENT).
- 13. Leave the power switch ON for 10 minutes.
- 14. Check that OFFSET voltages are OV and voltage between TP25 and 23 (TP26 and 24) is now 4 \sim 5 mV.
- 15. If necessary, adjust each potentiometers again.
- 16. Place top cover...
- 17. After performing these adjustments IDLE current of 30 mA will flow.

- Réglage -

- 6. Brancher un voltmètre de C.C. entre TP1 et 3 (TP2 et 4 pour le canal de droite) du bloc préamplificateur (X08-185*-**).
- 7. Régler VR1 (VR2) de façon à ce que le voltmèter de C.C. indique OV (OFFSET).
- 8. Brancher un voltmètre de C.C. aux bornes du haut-parleur.
- 9. Régler SPEAKERS interrupteur au A+B et PRESET LEVEL à 0.
- Régler CENTER ADJ. VR5 (VR6) de façon à ce que le voltmètre de C.C. indique OV. (OFFSET).
- 11. Brancher un voltmètre de C.C. entre TP25 et 23 (TP26 et 24) du bloc amplificateur audio (X09-160*-**)
- 12. Après 2 minutes, régler IDLE ADJ VR7 (VR8) de façon à ce que le voltmètre de C.C. indique 2 \sim 3 mV (COURANT DE POLARISATION).
- Maintenir le commutateur d'alimentation en position de marche pendant 10 minutes.
- 14. Vérifier que les voltages correspondent à 0V et s'assurer que le voltage entre TP25 et 23 corresponde maintenant à $4\sim5$ mV.
- 15. Si cela s'avère nécessaire, procéder à nouveau au réglage de chaque potentiomètre.
- 16. Placer le couvercle de haut.
- 17. A la suite de ces divers réglages, le passage du courant de polarisation de 30 mV sera assuré.



ADJUSTMENT/REGLAGES/ABGLEICH

ABGLEICH

VERSCHIEBUNG UND LEERLAUFSTROM

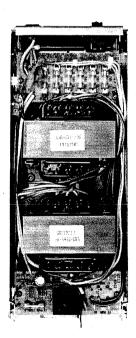
- Vor die Abgleich -

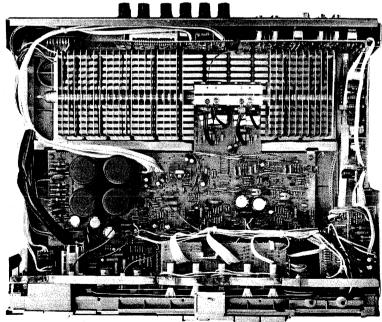
Dieser Abgleich wird ohne die künstliche Antenne anzuschließen ausgeführt.

- 1. Die obere Abdeckung entfernen.
- 2. Dieser Verstärker ist mit einem Wärmerohr ausgestattet. Aus diesem Grund soll er in horizontaler Lage bleiben um eine genaue Einstellung zu ermöglichen.
- 3. Vor Einschalten das Potentiometers VR7 und 8 drehen voll gegen den Uhrzeigersinn.
- 4. Den PRESEL LEVEL Knopf auf O.
- Nach Einschalten die Schritte b6 bis 10 binnen 1 Minuten ausführen.

- Abgleich -

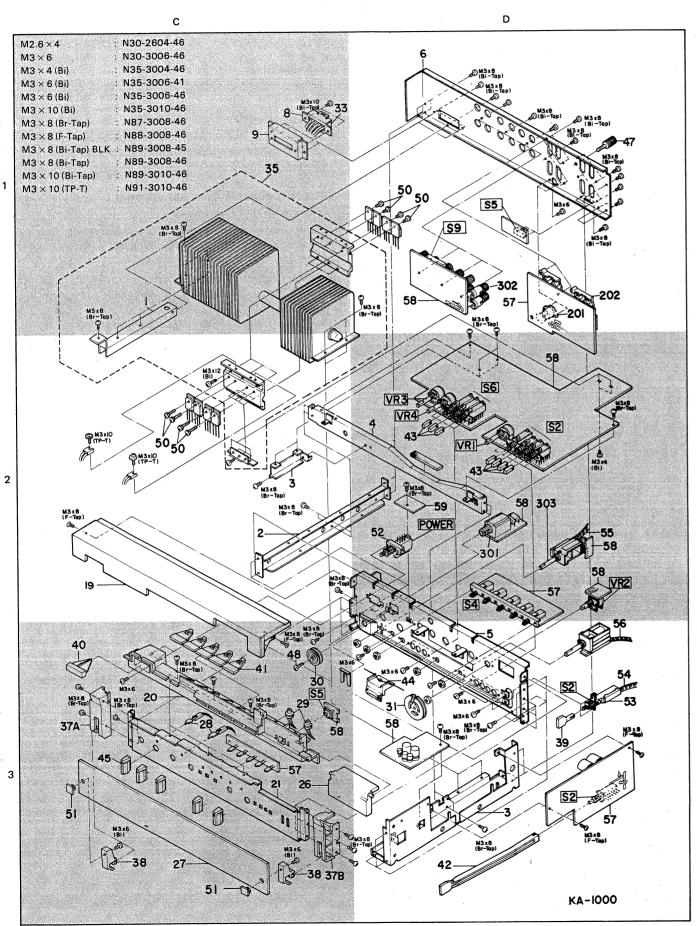
- 6. Einen Gleichspannungsmesser zwischen TP1 und 3 (TP2 und 4 für den rechten Kanal) des Vorverstärkers (X08-185*-**) anschließen.
- 7. Den VR1 (VR2) so regulieren, daß die Gleichspannungsmesser-Ablesung OV ist (VERSCHIEBUNG).
- 8. Einen Gleichspannungsmesser an die Lautsprecherklemmen anschließen.
- 9. Den Schalter SPEAKERS auf A+B und den PRESET VOLUME auf 0 einstellen.
- Den CENTER ADJ. VR5 (VR6) so regulieren, daß die Gleichspannungsmesser-Ablesung OV ist. (VERSCHIEB-UNG).
- 11. Einen Gleichspannungsmesser zwischen TP25 und 23 (TP26 und 24) des Tonverstärker (X09-160*-**) anschließen.
- Nach 2 Minuten, den IDLE ADJ VR7 (VR8) so regulieren, daß die Gleichspannungsmesser-Ablesung 2 ~ 3 mV ist (LEERLAUFSTROM).
- 13. Den Netzschalter 10 Minuten lang eingeschaltet lassen.
- Nachprüfen, ob die Verschiebespannungen OV sind und die Spannung zwischen TP25 und 23 jetzt 4~5 mV beträat.
- 15. Die Potentiometer erforderlichenfalls nochmals entsprechend einstellen.
- 16. Den oberen Deckel anbringen.
- Nach diesen Einstellungen fließt ein Ruhestrom von 30 mV.





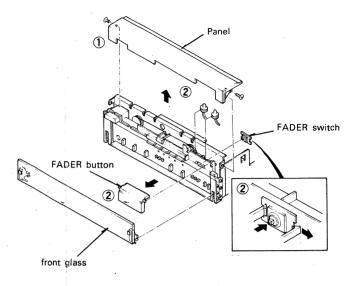
BBEAMB	AUDIO AMP		
PREAMP	L	R	
TP3 TP1 VR1 (OFFSET)			
	TP25 TP23	TP26 TP24	
TP2 VR2 TP4 (OFFSET)			
	VR7 (IDLE)	VR8 (IDLE)	
	VR5 (OFFSET)	VR6 (OFFSET)	

EXPLODED VIEW

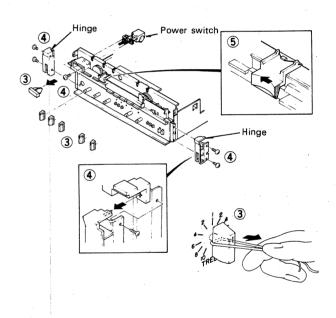


DISASSEMBLY FOR REPLACEMENT

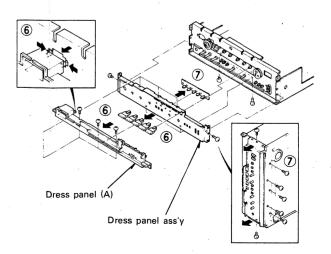
- 1. Remove side plate, top plate, panel and the front glass.
- Remove FADER button and FADER lamp. Now, you can remove the FADER switch (S5) pc board by spreading the claws outward and pushing the switch from the front.



- 3. Remove the power switch button and knobs for BASS, TREBLE, BALANCE etc. by pulling them toward yourself. If they cannot be removed by hand, wind a covered wire around the shaft and pull.
- 4. Remove screws of the power switch. Remove screws at the side of the hinge and pull it to the direction of the arrow as shown. This hinge serves as a rivet to hold dress panel (A) to the chassis. For this reason, please proceed after you remove this hinge.
- 5. Preset level knob can be removed after the adhesive is taken off and slided to the left.



- 6. Remove dress panel (A) by pinching the claws inward and pushing it toward the front. Now, INPUT selector button can be removed.
- 7. Remove 5 screws at the front side of the bottom plate, also 2 screws at sides of dress panel ass'y and pull frontward. Now LED pc board for INPUT selector can be removed.





ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

OFFSET AND IDLE CURRENT

- Before adjustments -

This adjustment must be done without dummy load connected.

- 1. Remove top cover
- 2. This amplifier uses heat pipe. For this reason, amplifier must be kept horizontal for accurate adjustment.
- 3. Before turning the power ON, turn potentiometers VR7 and 8 fully counterclockwise.
- 4. Set preset level to 0.
- 5. Follow steps 6 through 10 within 1 minute, after you turn the power ON.

- Adjustment -

- Connect a DC voltmeter between TP1 and 3 (TP2 and 4 for right channel) of preamp unit (X08-185*-**).
- Adjust VR1 (VR2) for a OV reading of the DC voltmeter (PREAMP OFFSET).
- 8. Connect a DC voltmeter to speaker terminals.
- 9. Set the SPEAKERS switch to A+B and the PRESET LEVEL to 0.
- 10. Adjust CENTER ADJ VR5 (VR6) for OV reading of the DC voltmeter (AUDIO AMP OFFSET).
- 11. Connect a DC voltmeter between TP25 and 23 (TP26 and 24) of audio amp unit (X09-160*_**).
- 12. After 2 minutes adjust IDLE ADJ VR7 (VR8) for 2 \sim 3 mV reading of the DC voltmeter (IDLE CURRENT).
- 13. Leave the power switch ON for 10 minutes.
- 14 Check that OFFSET voltages are 0V and voltage between TP25 and 23 (TP26 and 24) is now 4 \sim 5 mV.
- 15 If necessary, adjust each potentiometers again.
- 16 Place top cover.
- 17. After performing these adjustments IDLE current of 30 mA will flow

REGLAGES

DECALAGE ET COURANT DE POLARISATION

- Avant les réglages -

Ce réglage sera effectué sans connecter l'antenne artificielle.

- 1. Retirer le couvercle du haut.
- 2. Cet amplificateur est équipé d'un caloduc. Il faudra donc maintenir l'amplificateur à l'horizontale pour obtenir un réglage précis.
- 3. Avant avoir placé l'appareil sous tension, tourner les potentiomètres VR7 et 8 à fond dans le sens invers de celui des aiguilles d'une montre.
- 4. Régler PRESET LEVEL au O.
- 5. Procéder aux opérations 6 à 10 dans 1 minute, après avoir placé l'appareil sous tension.

- Réglage -

- 6. Brancher un voltmètre de C.C. entre TP1 et 3 (TP2 et 4 pour le canal de droite) du bloc préamplificateur (X08-185*-**).
- 7. Régler VR1 (VR2) de façon à ce que le voltmèter de C.C. indique OV (OFFSET).
- 8. Brancher un voltmètre de C.C. aux bornes du haut-parleur.
- 9. Régler SPEAKERS interrupteur au A+B et PRESET LEVEL à 0.
- 10. Régler CENTER ADJ. VR5 (VR6) de façon à ce que le voltmètre de C.C. indique OV. (OFFSET).
- 11 Brancher un voltmètre de C.C. entre TP25 et 23 (TP26 et 24) du bloc amplificateur audio (X09-160*-**)
- 12. Après 2 minutes, régler IDLE ADJ VR7 (VR8) de façon à ce que le voltmètre de C.C. indique 2 ~ 3 mV (COURANT DE POLARISATION).
- 13. Maintenir le commutateur d'alimentation en position de marche pendant 10 minutes.
- 14. Vérifier que les voltages correspondent à 0V et s'assurer que le voltage entre TP25 et 23 corresponde maintenant à $4\sim5$ mV.
- 15. Si cela s'avère nécessaire, procéder à nouveau au réglage de chaque potentiomètre.
- 16. Placer le couvercle de haut.
- 17. A la suite de ces divers réglages, le passage du courant de polarisation de 30 mV sera assuré.

ADJUSTMENT/REGLAGES/ABGLEICH

ABGLEICH

VERSCHIEBUNG UND LEERLAUFSTROM

- Vor die Abgleich -

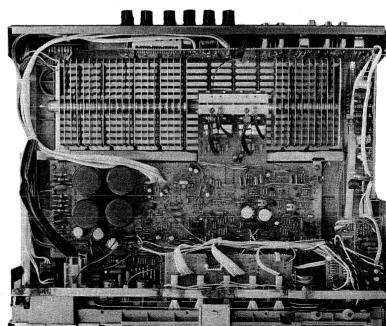
Dieser Abgleich wird ohne die künstliche Antenne anzuschließen ausgeführt.

- 1. Die obere Abdeckung entfernen.
- 2. Dieser Verstärker ist mit einem Wärmerohr ausgestattet. Aus diesem Grund soll er in horizontaler Lage bleiben um eine genaue Einstellung zu ermöglichen.
- 3. Vor Einschalten das Potentiometers VR7 und 8 drehen voll gegen den Uhrzeigersinn.
- 4. Den PRESEL LEVEL Knopf auf O.
- 5. Nach Einschalten die Schritte b6 bis 10 binnen 1 Minuten ausführen.

- Abgleich -

- 6. Einen Gleichspannungsmesser zwischen TP1 und 3 (TP2 und 4 für den rechten Kanal) des Vorverstärkers (X08-185*-**) anschließen.
- 7. Den VR1 (VR2) so regulieren, daß die Gleichspannungsmesser-Ablesung OV ist (VERSCHIEBUNG).
- 8. Einen Gleichspannungsmesser an die Lautsprecherklemmen anschließen
- 9. Den Schalter SPEAKERS auf A + B und den PRESET VOLUME auf 0 einstellen.
- Den CENTER ADJ. VR5 (VR6) so regulieren, daß die Gleichspannungsmesser-Ablesung OV ist (VERSCHIEB-UNG).
- 11. Einen Gleichspannungsmesser zwischen TP25 und 23 (TP26 und 24) des Tonverstärker (XO9-160*-**) anschließen.
- 12. Nach 2 Minuten, den IDLE ADJ VR7 (VR8) so regulieren, daß die Gleichspannungsmesser-Ablesung 2 \sim 3 mV ist (LEERLAUFSTROM).
- 13. Den Netzschalter 10 Minuten lang eingeschaltet lassen.
- Nachprüfen, ob die Verschiebespannungen OV sind und die Spannung zwischen TP25 und 23 jetzt 4~5 mV beträgt.
- 15. Die Potentiometer erforderlichenfalls nochmals entsprechend einstellen.
- 16. Den oberen Deckel anbringen.
- 17. Nach diesen Einstellungen fließt ein Ruhestrom von 30 mV



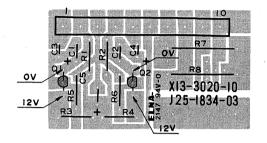


PREAMP	AUDIO	O AMP
FREAME	L	R
TP3 TP1 VR1 (OFFSET)		
	TP25 TP23	TP26 TP24
TP2 VR2 TP4 (OFFSET)		
	VR7 (IDLE)	VR8 (IDLE)
	VR5 (OFFSET)	VR6 (OFFSET)

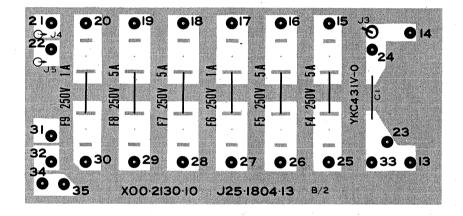
OFFSET (0V)

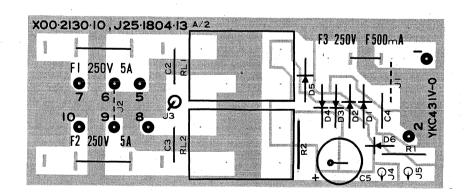
PC BOARD

SUB (X13-3020-10) Component Side View

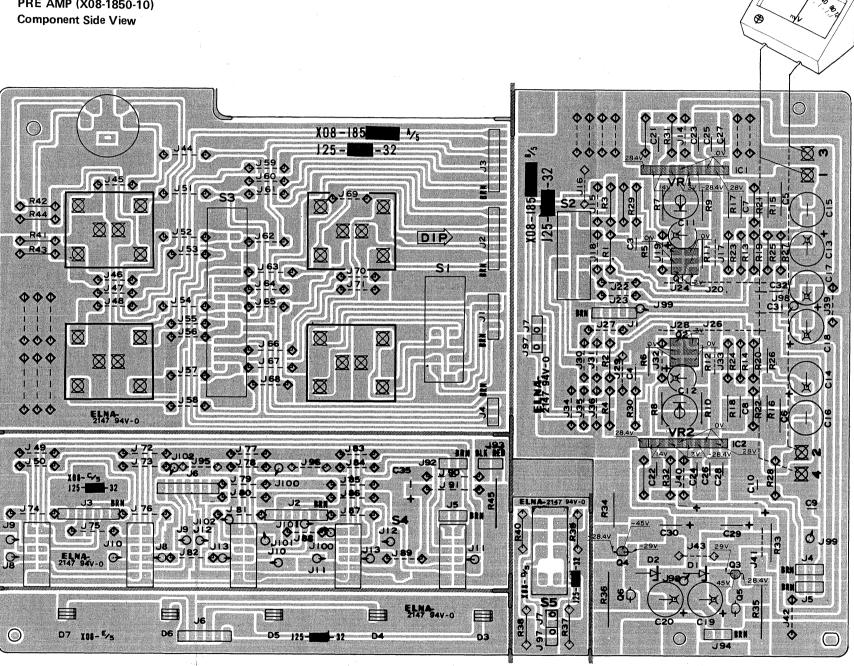


POWER SUPPLY (X00-213*-**) Component Side View





PRE AMP (X08-1850-10) **Component Side View**



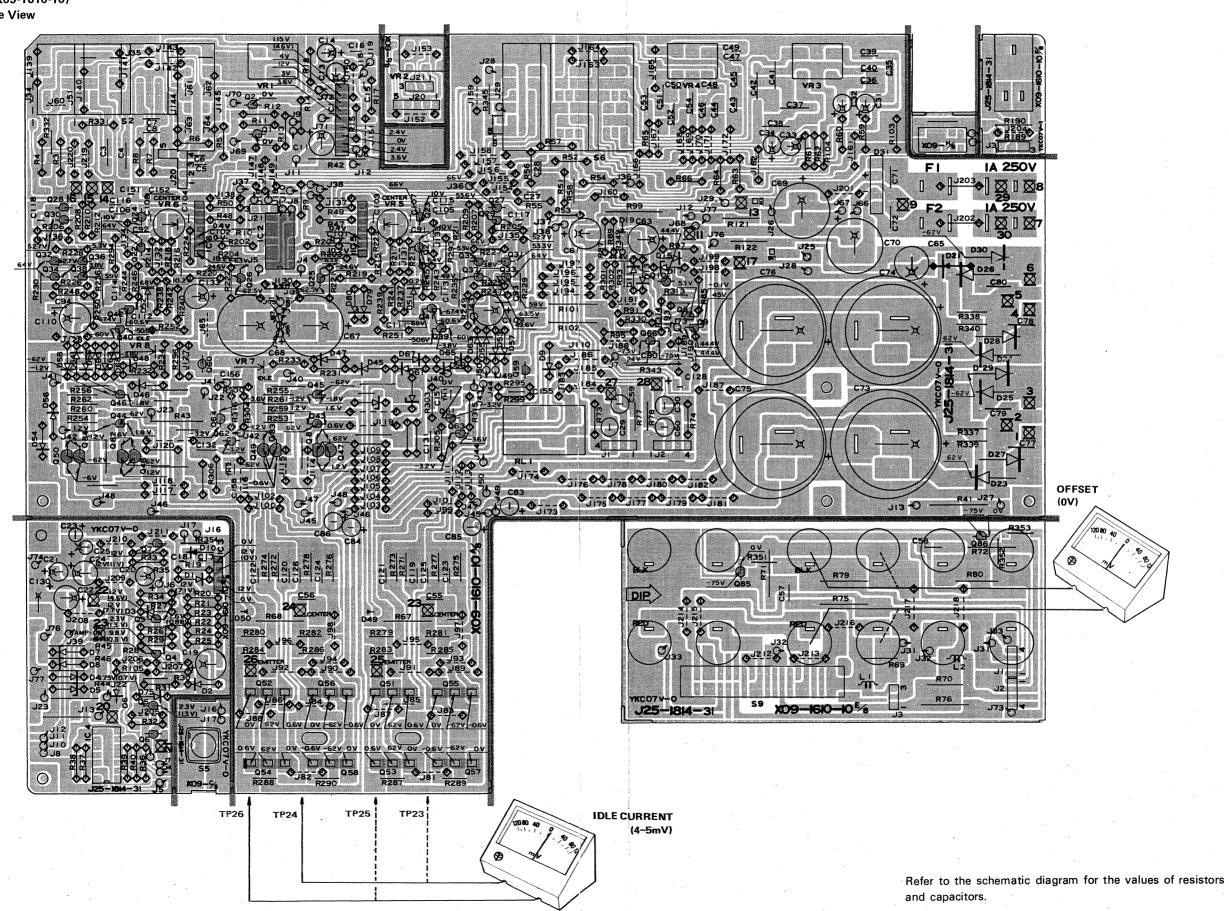
Refer to the schematic diagram for the values of resistors and capacitors.



KA-1000 KA-1000

PC BOARD

AUDIO AMP (X09-1610-10) Component Side View



marks

Description

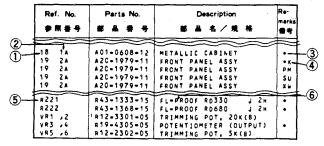


PARTS LIST

Ref. No.

Parts No.

INSTRUCTION FOR PARTS LIST



- ① Exploded view drawing No.
- 2 Position in exploded view.
- Symbol of new parts.

777

2

- Area to which parts are shipped. Example: A20-1979-11 is the part No. of FRONT PANEL ASS'Y for the "K" type products (for U.S.A.). When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.
- S Reference No. in schematic diagram.
 Abbreviation of "Flame-proof carbon film resistor" All capacitors and resistors are listed using abbreviations. Abbreviations.
- Abbreviations of capacitors (Parts No. with initial letter "C").

ELECTRO Electrolytic capacitor

LL-ELEC Low leak electrolytic capacitor NP-ELEC Non-pole electrolytic capacitor

MICA Mica capacitor POLYSTY Polystyrene capacitor MYLAR Mylar capacitor CERAMIC Ceramic capacitor TANTAL Tantalum capacitor MF..... Metallized film capacitor

Metallized paper capacitor

OIL Oil capacitor The unit "UF" is used in lieu of " μ F"

Abbreviations of resistors (Parts No. with initial letters "R").

RC Carbon composition resistor Carbon film resistor FL-PROOF RD Flame-proof carbon film resistor RW Wire wound power resistor

FL-PROOF RS Flame-proof metal oxide film resistor RN

...... Metal film resistor FUSE-RESIST Resistor with fuse function 2B..... Rated wattage 1/8W Rated wattage 1/4W 2H Rated wattage 1/2W 3A Rated wattage 1W 3D Rated wattage 2W 3F Rated wattage 3W 3G Rated wattage .4W

3H Rated wattage 5W All resistor values are indicated with the unit (Ω) omitted.

<u>b</u> ±0.5pF (Used for capacitors only)

..... ±1% **G**.....±2%±10%

.....±20% **Z**.....+80%.-20%(Used for capacitors only) + 100%. - 0%(Used for capacitors only)

Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

CODES in:

X00-213*-**

E: X00-2132-71 U: X00-2130-81 K: X00-2130-10

#	照番号	部品	番 号	部品名/規格	marks 備考
		 	KA-100	O UNIT	
1 2 3 4 5	1 C 2 C 2 C , 3 D 2 D 3 D	-		METALLIC FRAME (D) METALLIC FRAME (L) METALLIC FRAME (R) METALLIC FRAME (C) SUB PANEL	
6 8 9	10 10 10	-		REAR PANEL MOUNTING HARDWARE(PLUG) MOUNTING HARDWARE(CONN)	
19 19 19 19	2 C 2 C 2 C 2 C	A20-17 A20-17 A20-17 A20-17	728-02 728-02 728-02 728-02 728-02 728-02	SIGMA CORD FRONT PANEL FRONT PANEL FRONT PANEL FRONT PANEL FRONT PANEL	*K PU MH UE XE
19 20 21 22 23	2 C 3 C 3 C 1 A 1 A	A21-03 A21-03 A40-03	729-02 329-12 334-12 248-02 084-12	FRONT PANEL DRESSING PANEL (A) DRESSING PANEL (B) ASSY BOTTOM PLATE SIDE PLATE (L)	*T
24 25	1 B 1 B		085 - 12 038 - 02	SIDE PLATE (R) TOP PLATE	
-		846-00 846-00 846-00	055-30 060-00 061-30 062-30 062-30	WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD	P T K UH
		846-00 846-00 850-3	063-13 063-13 064-20 239-00 240-00	WARRANTY CARD WARRANTY CARD WARRANTY CARD INSTRUCTION MANUAL INSTRUCTION MANUAL	UH UE X *K
-		850-3 850-3 850-3	240-00 241-00 241-00 241-00 241-00	INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL	MX *P UM HX
-		850-3; 850-3; 859-0	242-00 243-00 262-00 018-00 018-00	INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL SERVICE STATIONS' LIST SERVICE STATIONS' LIST	*E *T UH
26 27 28 29	3 C 3 C 3 C 3 C	B10-0; B30-0;	013-14 285-04 262-05 270-05	FADER BUTTON FRONT GLASS LED LAMP(FADER) 8V,0.075A	*
30 31	3 C 3 D		073-14 179-03	PULLEY (SMALL) PULLEY (LARGE)	
33	10	E09-1	603-05	RECTANGULAR PLUG	
35	1 C	F01-0	358-15	HEAT SINK ASSY	
		H01-3 H01-3 H01-3	222-04 222-04 222-04 222-04 224-04	CARTON BOX CARTON BOX CARTON BOX CARTON BOX CARTON BOX	*U MH UE X *E
-		H01-3	225-04 254-04 563-02	CARTON BOX CARTON BOX POLYSTYRENE FIXTURE	*T *K

KA-1000

PARTS LIST

Re	f. No.	Parts No.	Description	Re-
*	照番号	部品番号	部品名/規格	mark! 備考
-		H12-0081-04 H20-0453-04 H25-0078-04 H25-0078-04	PACKING FIXTURE COVER BAG 235X315 BAG 235X315	UH UH
37A 37B 38	3 C 3 C 3 C	J50-0098-03 J50-0099-03 J50-0100-04	HINGE (L) HINGE (R) HINGE (A)	
39 40 41 42 43	30 30 30 30 20	K27-0188-04 K27-0189-04 K27-0190-14 K27-0191-03 K27-0192-14	PUSH BTN(PHONO 1-2) PUSH BTN(POWER) PUSH BTN(INPUT SELECT) PUSH BTN(CART MM-MC) PUSH BTN(FILTER, ETC)	
44 45	3 D 3 C	K29-0381-23 K29-0382-14	KNOB(PRESET LEVEL) KNOB(SP,TONE,BAL,REC)	
47 48 49 50 51	10 3C 1A,1B 1D,2C 3C	N08-0128-35 N09-0100-14 N09-0363-05 N09-0364-05 N14-0127-04	GND TERMINAL SCREW (PULLEY) SCREW (SIDE PLATE) SCREW (POWER TR) NUT (FRONT GLASS)	
52 53 54 56	2D 3D 3D 3D	\$40-2123-05 \$90-0039-05 \$90-0051-05 \$90-0043-05	PUSH SWITCH (POWER) REMOTE SW SHAFT REMOTE WIRE REMOTE ROT SW (REC OUT)	
Q51 Q55	-54 -58	V03-2837-10 V01-1186-10	2sc2837(0,y) 2sa1186(0,y)	*
57 58 59	20,30 20,30 20	x08-1850-10 x09-1610-10 x13-3020-10	PRE AMP PCB ASSY AUDIO AMP PCB ASSY SUB PCB ASSY	*
12	38	KA-1000P		Τ
13 14 15 16	38 38 28 38	- -	MAIN CHASSIS REAR PANEL ESCUTCHEON RECTANGULAR PLUG MOUNTING HARDWARE (B)	
17	3 B	-	MOUNTING HARDWARE (C)	
23 24 60 60	2A 3B 3A 3A 3A	A50-0084-02 A50-0085-02 A20-1722-02 A20-1722-02 A20-1722-02	SIDE PLATE (L) SIDE PLATE (R) FRONT PANEL FRONT PANEL FRONT PANEL	* K PU MH
60 60 61 62	3A 3A 3A 3A 2A	A20-1722-02 A20-1722-02 A20-1723-02 A21-0347-04 A52-0034-03	FRONT PANEL FRONT PANEL FRONT PANEL DRESSING PANEL TOP PLATE	VE XE +T +
63 64	3 A 3 A	B10-0284-04 B30-0258-05	FRONT GLASS LED	
- -		C91-0023-05 C91-0023-05 C91-0023-05 C91-0079-05	CERAMIC 0,01UF AC250V CERAMIC 0,01UF AC250V CERAMIC 0,01UF AC250V CERAMIC 0,01UF AC125V	K P H X U M
32 32 32 32 32 65	3B 3B 3B 3B 3B	E03+0018-05 E03-0018-05 E03-0018-05 E03-0018-05 E30-0290-05	AC OUTLET AC OUTLET AC OUTLET AC OUTLET POWER CORD	KP UM HX UE KP
65 65 65	38 38 38	E30-0291-25 E30-0291-25 E30-0291-25	POWER CORD POWER CORD POWER CORD	H H UM

Pa	f. No.	Parts No. Description	₹e-
	照番号		arks
65	38 38	E30-0580-05 POWER CORD	勝考 E T
65 66	3 B 2 B		x *
-	-	H10-1564-02 POLYSTYRENE FIXTURE H25-0122-04 BAG H25-0182-14 BAG	*
36 36 36 36 36	3 B 3 B 3 B 3 B 3 B	J42-0083-05 BUSHING J42-0085-05 BUSHING J42-0085-05 BUSHING	KP TE UM HX UE
67	3A,38	J02-0112-04 FOOT X4	*
69 69 69 69	2A,2B 2A,2B 2A,2B 2A,2B 2A,2B	LO1-2161-05 POWER TRANSFORMER LO1-2161-05 POWER TRANSFORMER LO1-2162-05 POWER TRANSFORMER LO1-2165-05 POWER TRANSFORMER LO1-2165-05 POWER TRANSFORMER	*K P *T *U MH
69 69 69 70	2A,2B 2A,2B 2A,2B 3A 3A	LO1-2165-05 POWER TRANSFORMER LO1-2166-05 POWER TRANSFORMER LO1-2171-05 POWER TRANSFORMER	VE X + E + K P
70 70 70 70 70	3 A 3 A 3 A 3 A	LO1-2174-05 POWER TRANSFORMER	UM HX VE *T E
49 51	2A,3B 3A	N09-0363-05 SCREW (SIDE PLATE) N14-0127-04 NUT (FRONT GLASS)	
71 71 71 71	2A,2B 2A,2B 2A,2B 2A,2B	\$31-2050-05 SLIDE SW (VOLTAGE SEL)	UM HX DE
73 73 73 73 73	2A,2B 2A,2B 2A,2B 2A,2B 2A,2B	l	# 4 + ± E
73 73 73	2A,2B 2A,2B 2A,2B	X00-2130-81 POWER SUPPLY PCB ASSY X00-2132-71 POWER SUPPLY PCB ASSY X00-2132-71 POWER SUPPLY PCB ASSY	X *T E
		POWER SUPPLY(X00-213*-**)	
C1 C2 C4 C5	,2	C91-0079-05 CERAMIC 0.01UF AC125V C91-0023-05 CERAMIC 0.01UF AC250V C54-2710-39 CERAMIC 0.01UF P C24-1247-71 ELECTRO 470UF 16WV	C B
F3 F4 F4 F6	,5 ,5 ,5	F05-5015-05 F05-5021-05 F05-5022-05 F05-5024-05 F05-1021-05 F05-10	E K U E K
F6 F6 F7 F7	, 8 , 8 , 8	F05-1023-05 F06-1021-05 F05-5021-05 F05-5022-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05 F05-5024-05	E K U E
F 9		F05-1021-05 FUSE 1A 250V F05-1023-05 FUSE 1A 250V	K U

KA-1000

PARTS LIST

Ref. No.	Parts No.	Description	Re-		
参照番号	部品番号	部品名/規格	marks 備考		
F9	F06-1021-05	FUSE F1A 250V	E		
101 2B 101 2B	J13-0054-05 J13-0055-05	FUSE HOLDER FUSE HOLDER	E KU		
R2	R47-5427-05	FL-PROOF RS27 J 3A	UE		
RL1 RL1 ,2	\$51-1027-05 \$51-1028-05	RELAY	U E K		
D1 -5	v11-0295-05	W06B			
	PRE AMP (X08-1850-10)				
03 -7	B30-0258-05	LED			
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10	C52-1756-16 C71-1712-16 C49-2051-34 C49-2015-35 C48-1710-25	CERAMIC 560PF K CERAMIC 120PF J MYLAR 0.051UF G MYLAR 0.015UF J POLYSTY 1000PF J			
C11 ,12 C13 ,14 C15 ,16 C17 -20 C21 ,22	C90-0402-05 C90-0532-05 C90-0404-05 C24-6510-71 C91-0100-05	ELECTRO 100UF 10WV ELECTRO 470UF 10WV NP-ELEC 10UF 35WV ELECTRO 100UF 35WV POLYSTY 1000PF J			
C23 -26 C27 ,28 C29 ,30 C31 ,32 C33 ,34	C71-1733-05 C71-1705-01 C24-1847-71 C49-2010-34 C55-1710-38	CERAMIC 33PF 50WV CERAMIC 5PF C ELECTRO 470UF 63WV MYLAR 0.01UF G CERAMIC 0.01UF Z			
C35	c24-1047-69	ELECTRO 47UF 10WV			
201 10 202 1D	E06-0510-05 E13-0429-05	DIN CONNECTOR PHONO JACK			
R11 ,12 R13 ,14 R15 ,16 R17 ,18 R23 ,24	R48-2107-03 R48-6282-95 R48-2619-23 R48-2511-13 R48-6233-05	RN 107 F 2E RN 8,2 J 2E RN 61,9K F 2E RN 5,11K F 2E RN 33 J 2E			
R33 ,34 R35 ,36 R45 VR1 ,2	R43-1247-95 R47-5533-15 R47-5456-25 R12-0502-05	FL-PROOF RD4.7 J 2E FL-PROOF RS330 J 3D FL-PROOF RS5.6K J 3A TRIMMING POT. (100KB)			
\$1 \$2 \$3 \$4 \$5	\$90-0045-05 \$40-4033-05 \$90-0038-05 \$42-5020-05 \$31-2059-05	SLIDE SW. (PHONO 1-2) PUSH SW. (MM-MC) SLIDE SW. (REC-OUT) PUSH SW. (INPUT SEL) SLIDE SW. (PHONO IMP)	*		
D1 ,2 IC1 ,2 Q1 ,2 Q3 Q4	V11-4109-20 V30-0520-10 V09-0153-10 V03-2167-10 V01-0957-10	WZ-290 TAZ010A 2SK240(BL,V) 2SC2167(Y,G) 2SA957(Y,G)	*		
Q5 ,6	V09-0127-50	25K105(H)			
\		(X09-1610-10)			
C3 ,4 C5 ,6 C7 ,8 C11 C13 ,14	C46-1718-46 C71-1722-15 C46-1727-35 C24-1010-79 C25-1722-47	MYLAR 0,18UF K CERAMIC 220PF J MYLAR 0,027UF J ELECTRO 100UF 10WV LL-ELEC 0,22UF 50WV			
C15 ,16 C17 C18 C19 ,20	C52-1756-16 C71-1756-06 C71-1710-02 C25-1222-67	CERAMIC 560PF K CERAMIC 56PF J CERAMIC 10PF D LL-ELEC 22UF 16WV			

Ref. No.	Parts No.	Description	Re- marks
参照番号	部品番号	部品名/規格	備考
C21 ,22	c25-1210-77	LL-ELEC 100UF 16WV	
C23	c25-1210-67	LL-ELEC 10UF 16WV	
C24	c24-0847-79	ELECTRO 470UF 6.3WV	
C25	c25-1210-67	LL-ELEC 10UF 16WV	
C27 ,28	c71-1708-02	CERAMIC 8PF D	
C29 ,30	C26-1722-57	NP-ELEC 2.2UF 50WV	
C31 ,32	C25-1722-57	LL-ELEC 2.2UF 50WV	
C33 ,34	C25-1222-67	LL-ELEC 22UF 16WV	
C35 ,36	C46-1733-35	MYLAR 0.033UF K	
C37 ,38	C46-1715-46	MYLAR 0.15UF K	
C39 ,40 C41 ,42 C43 -46 C47 ,48 C49 ,50	C46-1733-35 C46-1715-46 C46-1712-35 C71-1733-16 C46-1712-26	MYLAR 0.033UF K MYLAR 0.15UF K MYLAR 0.012UF J CERAMIC 330PF K MYLAR 0.0012UF K	
C51 -54	C46-1756-35	MYLAR 0.056UF J	
C55 -58	C46-1747-35	MYLAR 0.047UF J	
C59 ,60	C26-1722-57	NP-ELEC 2.2UF 50WV	
C61	C24-0822-79	ELECTRO 220UF 6.3WV	
C63	C24-1410-71	ELECTRO 100UF 25WV	
C65	C24-2033-67	ELECTRO 33UF 100WV	
C67 ,68	C24-2033-77	ELECTRO 330UF 100WV	
C69 ,70	C24-2047-77	ELECTRO 470UF 100WV	
C71 ,72	C54-2710-39	CERAMIC 0.01UF P	
C73 -76	C90-0493-05	ELECTRO 10000UF 63WV	
C77 -80 C83 -86 C90 C91 ,92 C93 ,94	C54-2710-39 C24-1822-51 C52-1715-26 C46-1710-35 C71-1708-02	CERAMIC 0.01UF P. ELECTRO 2.2UF 63wV CERAMIC 0.0015UF K MYLAR 0.01UF J CERAMIC 8PF D	
C101,102	C71-1710-15	CERAMIC 100PF J	
C105,106	C52-1782-16	CERAMIC 820PF K	
C107,108	C71-1702-01	CERAMIC 2PF C	
C109,110	C24-1047-69	ELECTRO 47UF 10WV	
C111,112	C46-1733-35	MYLAR 0,033UF K	
C113,114 C115,116 C119-126 C128 C130	C71-1739-06 C55-1722-38 C46-1722-35 C25-1710-67 C24-1747-61	CERAMIC 39PF J CERAMIC 0.022UF Z MYLAR 0.022UF J ELECTRO 10UF 50WV ELECTRO 47UF 50WV	
C133	C24-0810-79	ELECTRO 100UF 6.3WV	
C151	C25-1747-47	LL-ELEC 0.47UF 50WV	
C152	C46-1710-45	MYLAR 0.1UF J	
C153,154	C71-1706-02	CERAMIC 6PF D	
C155,156	C71-1722-15	CERAMIC 220PF J	
C157,158	c52-1715-26	CERAMIC 0.0015UF K	
301 2D	E11-0081-05	PHONE JACK	
302 1D	E20-0814-05	SPEAKER TERMINAL	
L1 ,2	L39-0085-05	COIL	
-	N10-2030-46	HEXAGON NUT (M3)	
R16	R47-5518-25	FL-PROOF RS1.8K J 3D	
R41	R47-5522-15	FL-PROOF RS220 J 3D	
R42 ,43	R47-5510-25	FL-PROOF RS1K J 3D	
R44 =46	R47-5433-25	FL-PROOF RS3.3K J 3A	
R67 ,68	R47-5547-95	FL-PROOF RS4.7 J 3D	
R69 ,70	R47-5410-05	FL-PROOF RS10 J 3A	
R71 ,72	R47-5547-95	FL-PROOF RS4.7 J 3D	
R75 ,76	R47-5556-15	FL-PROOF RS560 J 3D	
R77 ,78	R43-1233-95	FL-PROOF RD3.3 J 2E	
R79 ,80	R47-5410-05	FL-PROOF RS10 J 3A	



PARTS LIST

Ref. No.	Parts No.	Description	Re- marks
参照番号	部品番号	部品名/規格	marks 備考
R81	R47-5456-15	FL-PROOF RS560 J 3A	
R99	R47-5518-25	FL-PROOF RS1.8K J 3D	
R101,102	R47-5512-15	FL-PROOF RS120 J 3D	
R113-116	R43-1247-05	FL-PROOF RD47 J 2E	
R121	R47-5547-15	FL-PROOF RS470 J 3D	
R122	R47-5582-15	FL-PROOF RS820 J 3D	
R229,230	R43-1216-15	FL-PROOF RD160 J 2E	
R235,236	R47-5482-25	FL-PROOF RS8,2K J 3A	
R253-256	R43-1256-15	FL-PROOF RD560 J 2E	
R259-262	R43-1282-05	FL-PROOF RD82 J 2E	
R271-278 R279-290 R307 R337-340 R343	R43-1282-95 R92-0203-05 R47-5418-35 R43-1282-25 R47-5510-25	FL-PROOF RD8,2 J ZE FIXED RESISTOR FL-PROOF RS18K J 3A FL-PROOF RD8,ZK J ZE FL-PROOF RS1K J 3D	
R345 VR1 VR2 VR3 ,4 VR5 ,6	R47-5456-25 R06-5062-05 R06-5063-05 R06-4051-05 R12-0502-05	FL-PROOF RS5.6K J 3A POTENTIOMETER (BAL) POTENTIOMETER (VOL) POTENTIOMETER (TONE) TRIMMING POT. 100	:
VR7 ,8	R12-0077-05	TRIMMING POT. 100	
303 2D RL1 S2 S5 S6	\$90-0046-05 \$51-2045-05 \$42-4015-05 \$40-1012-05 \$42-3047-05	REMOTE ROT SW (SP SEL) RELAY PUSH SW.(FIL,MODE,LOUD) PUSH SW.(FADER) PUSH SW.(TURN OVER)	*
59	S90-0047-05	SLIDE SW. (SP SELECTOR)	
D1 -3	V11-0273-05	152076A	
D4	V11-4100-40	Wz-120	
D5	V11-4172-26	Wz-032	
D6	V11-4100-40	Wz-120	
D7 ,8	V11-4172-26	Wz-032	
D9	V11-0273-05	152076A	
D10	V11-0271-05	152076	
D11	V11-0273-05	152076A	
D13	V11-0273-05	152076A	
D15	V11-0273-05	152076A	
D17	V11-0287-05	WZ-240	
D19	V11-0273-05	152076A	
D21	V11-0295-05	W06B	
D23 -30	V11-0465-05	GP25D	
D31	V11-5100-60	RB-151	
D45 ,46	V11-5100-80	STV-2H(W)	
D47 ,48	V11-0271-05	152076	
D49 ,50	V21-0013-05	STV-3H(Y)	
D51 ,52	V11-0271-05	152076	
D53 -56	V11-0273-05	152076A	
057 -68	V11-0271-05	1s2076	
075	V11-0273-05	1s2076a	
079	V11-4103-60	xz-051	
080	V11-0271-05	1s2076	
081	V11-0271-05	1s2076	
IC1	V30-0514-10	AN5733	
IC2	V30-0516-10	MB84066B	
IC3	V30-0515-10	DN819	
IC4	V30-0526-10	MB84069B	
IC5 ,6	V09-0145-30	UPA68H(L,M)	
Q1 ,2	V09-0144-40	2SK163(N)	
Q3 ,4	V01-0999-10	2SA999(E,F)	
Q5	V03-2320-00	2SC2320	

Ref. No.	Parts No.	Description	Re-
参照番号	部品番号	部品名/規格	marks 備考
96	V02-0724-20	2SB724(P,O)	
97	V01-0999-10	2SA999(E,F)	
Q8	V03-2320-00	2SC2320	
Q9	V01-0999-10	2SA999(F,E)	
Q10	V01-0954-00	2SA954	
Q21 -26	V03-2320-00	2SC2320	
Q27 -30	V03-0098-05	2SC535	
Q31 -34	V01-0999-10	2SA999(E • F)	
Q31 -34	V01-1127-30	2SA1127NC	
Q35 -38	V01-0912-30	2SA912(R)	
Q35 -38	V01-0992-10	2SA992(F • E)	
Q39 ,40	V03-1885-20	2SC1885(R)	
Q41 ,42	V03-2320-00	2SC2320	
Q43 ,44	V03-2631-10	2SC2631(Q,R,S)	
Q45 ,46	V01-1123-10	2SA1123(Q,R,S)	
Q47 ,48	V03-2275-10	2SC2275A(R,Q,P)	
Q49 ,50	V01-0985-10	2SA985A(R,Q,P)	
Q59 ,60	V01-0992-10	2SA992(F,E)	
Q61 ,62	V01-0198-05	2SA872	
Q63 ,64	V03-1775-00	2SC1775	
Q66	V03-1845-10	2SC1845(F,E)	
Q81 ,82	V03-2275-10	2SC2275A(R,Q,P)	
Q83 ,84	V01-0985-10	2\$A985A(R,Q,P)	
Q85 ,86	V01-0992-10	2\$A992(F,E)	
TH1 ,2	V22-0027-05	5TP-41L	
	SUB (X13-3020-10)	
C1 ,2	C52-1747-26	CERAMIC 0.0047UF K	
C3 ,4	C25-1447-57	LL-ELEC 4.7UF 25WV	
R7 ,8	R47-5522-15	FL-PROOF RS220 J 3D	
Q1 ,2	V01-0992-00	2SA992	

Semiconductor Substitutions

Name	Substitutions
PR	E AMP (X08-1850-10)
TA2010A	TA2010
2SA957 (Y, G)	2SB724 (O)
2SC2167	2SD762 (O)
2SK105 (H)	2SK163 (L), 2SK136 (Q), 2SK117 (GR)
AUD	IO AMP (X09-1610-10)
MB84066B	μPD4066C
MB84069B	μPD4069C
2SA985A (R,Q,P)	2SA1111 (Q, R)
2SA1123 (Q,R,S)	2SA912 (Q, R, S)
2SC535	2SC1674 (L, K), 2SC1923
2SC2275A (R,Q,P)	2SC2591 (Q, R)
2SC2320	2SC945
2SC2631 (Q,R,S)	2SC1885 (Q, R, S)
2SK163 (N)	2SK105 (H)
1S2076	1S1555
GP25D	U05C (S)

PARTS LIST

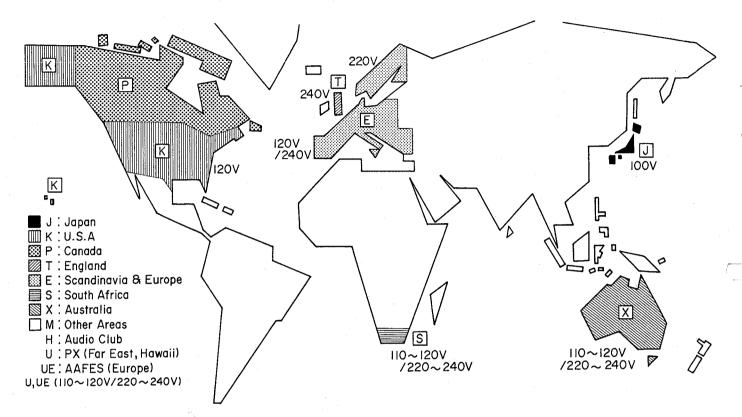
Ref. No.	Parts No.	Description	Re-
参照番号	部品番号	部品名/規格	marks 備考
R81	R47-5456-15	FL-PROOF RS560 J 3A	
R99	R47-5518-25	FL-PROOF RS1.8K J 3D	
R101,102	R47-5512-15	FL-PROOF RS120 J 3D	
R113-116	R43-1247-05	FL-PROOF RD47 J 2E	
R121	R47-5547-15	FL-PROOF RS470 J 3D	
R122	R47-5582-15	FL-PROOF RS820 J 3D	
R229,230	R43-1216-15	FL-PROOF RD160 J 2E	
R235,236	R47-5482-25	FL-PROOF RS8,2K J 3A	
R253-256	R43-1256-15	FL-PROOF RD560 J 2E	
R259-262	R43-1282-05	FL-PROOF RD82 J 2E	
R271-278 R279-290 R307 R337-340 R343	R43-1282-95 R92-0203-05 R47-5418-35 R43-1282-25 R47-5510-25	FL-PROOF RD8.2 J ZE FIXED RESISTOR FL-PROOF RS18K J 3A FL-PROOF RD8.2K J ZE FL-PROOF RS1K J 3D	
R345 VR1 VR2 VR3 .4 VR5 .6	R47-5456-25 R06-5062-05 R06-5063-05 R06-4051-05 R12-0502-05	FL-PROOF RS5.6K J 3A POTENTIOMETER (BAL) POTENTIOMETER (VOL) POTENTIOMETER (TONE) TRIMMING POT. 100	
VR7 .8	R12-0077-05	TRIMMING POT, 100	
303 20 RL1 S2 S5 S6	\$90-0046-05 \$51-2045-05 \$42-4015-05 \$40-1012-05 \$42-3047-05	REMOTE ROT SW (SP SEL) RELAY PUSH SW.(FIL,MODE,LOUD) PUSH SW.(FADER) PUSH SW.(TURN OVER)	*
59	s90-0047-05	SLIDE SW. (SP SELECTOR)	
D1 -3	V11-0273-05	1\$2076A	
D4	V11-4100-40	WZ-120	
D5	V11-4172-26	WZ-032	
D6	V11-4100-40	WZ-120	
D7 ,8	V11-4172-26	WZ-032	
D9	V11-0273-05	152076A	
D10	V11-0273-05	152076	
D11	V11-0273-05	152076A	
D13	V11-0273-05	152076A	
D15	V11-0273-05	152076A	
017	V11-0287-05	WZ-240	
019	V11-0273-05	1s2076A	
021	V11-0295-05	W06B	
023 -30	V11-0465-05	GP25D	
031	V11-5100-60	RB-151	
045 ,46	V11-5100-80	STV-2H(W)	
047 ,48	V11-0271-05	152076	
049 ,50	V21-0013-05	STV-3H(Y)	
051 ,52	V11-0271-05	152076	
053 =56	V11-0273-05	152076A	
D57 -68	V11-0271-05	1 S 2 0 7 6	
D75	V11-0273-05	1 S 2 0 7 6 A	
D79	V11-4103-60	X 2 - 0 5 1	
D80	V11-0271-05	1 S 2 0 7 6	
D81	V11-0271-05	1 S 2 0 7 6	
IC1	V30-0514-10	AN5733	
IC2	V30-0516-10	MB84066B	
IC3	V30-0515-10	DN819	
IC4	V30-0526-10	MB84069B	
IC5 ,6	V09-0145-30	UPA68H(L,M)	
Q1 ,2	V09-0144-40	2SK163(N)	
Q3 ,4	V01-0999-10	2SA999(E,F)	
Q5	V03-2320-00	2SC2320	

Ref. No.	Parts No.	Description	Re-
参照番号	部品番号	部品名/規格	marks 備考
Q6 Q7	V02-0724-20 V01-0999-10	2\$B724(P.O) 2\$A999(E.F)	
Q8 Q9 Q10 Q21 -26, Q27 -30	V03-2320-00 V01-0999-10 V01-0954-00 V03-2320-00 V03-0098-05	2SC2320 2SA999(F,E) 2SA954 2SC2320 2SC535	
Q31 -34 Q31 -34 Q35 -38 Q35 -38 Q39 ,40	V01-0999-10 V01-1127-30 V01-0912-30 V01-0992-10 V03-1885-20	2SA999(E » F) 2SA1127NC 2SA912(R) 2SA992(F » E) 2SC1885(R)	
Q41 ,42 Q43 ,44 Q45 ,46 Q47 ,48 Q49 ,50	V03-2320-00 V03-2631-10 V01-1123-10 V03-2275-10 V01-0985-10	2SC2320 2SC2631(Q,R,S) 2SA1123(Q,R,S) 2SC2275A(R,Q,P) 2SA985A(R,Q,P)	
Q59 ,60 Q61 ,62 Q63 ,64 Q66 Q81 ,82	V01-0992-10 V01-0198-05 V03-1775-00 V03-1845-10 V03-2275-10	2SA992(F,E) 2SA872 2SC1775 2SC1845(F,E) 2SC2275A(R,Q,P)	
Q83 ,84 Q85 ,86 TH1 ,2	V01-0985-10 V01-0992-10 V22-0027-05	2SA985A(R,Q,P) 2SA992(F,E) 5TP-41L X13-3020-10)	
c1 ,2	c52-1747-26	CERAMIC 0.0047UF K	
C3 ,4 R7 ,8	C25+1447+57 R47-5522-15	FL-PROOF RS220 J 3D	
Q1 ,2	V01-0992-00	2SA992	

Semiconductor Substitutions

Name	Substitutions			
PR	PRE AMP (X08-1850-10)			
TA2010A	TA2010			
2SA957 (Y, G)	2SB724 (O)			
2SC2167	2SD762 (O)			
2SK105 (H)	2SK163 (L), 2SK136 (Q), 2SK117 (GR)			
AUD	IO AMP (X09-1610-10)			
MB84066B	μPD4066C			
МВ84069В	μPD4069C			
2SA985A (R,Q,P)	2SA1111 (Q, R)			
2SA1123 (Q,R,S)	2SA912 (Q, R, S)			
2SC535	2SC1674 (L, K), 2SC1923			
2SC2275A (R,Q,P)	2SC2591 (Q, R)			
2SC2320	2SC945			
2SC2631 (Q,R,S)	2SC1885 (Q, R, S)			
2SK163 (N)	2SK105 (H)			
1S2076	1S1555			
GP25D	U05C (S)			

WORLD MAP & AREA CODE



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

There are no plan for producing units of S type.

A product of TRIO-KENWOOD CORPORATION

6-17, 3-chome, Aobadai, Meguro-ku, Tőkyo 153, Japan

KENWOOD ELECTRONICS, INC.

KENWOOD ELECTRONICS, INC.

1315 E. Watsoncenter Rd. Carson, California 90745, U.S.A.

75 Seaview Drive, Secaucus, New Jersey 07094, U.S.A.

1098 North Tower Lane Bensenville, Illinois 60106, U.S.A.

TRIO-KENWOOD ELECTRONICS, N.V.

Leuvensesteenweg 504 B-1930 Zaventem, Belgium

TRIO-KENWOOD ELECTRONICS GmbH

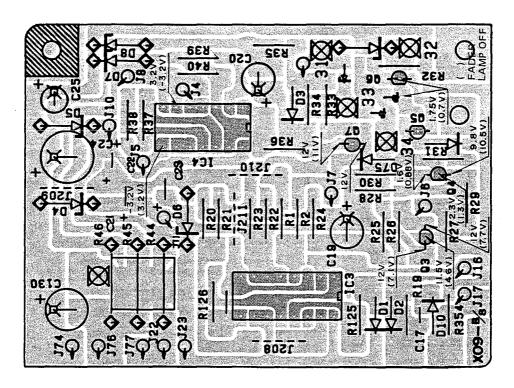
Rudolf-Braas-Str. 20, 6056 Heusenstamm, West Germany TRIO-KENWOOD FRANCE S.A.

5, Boulevard Ney, 75018 Paris, France TRIO-KENWOOD SVENSKA AB

TRIO-KENWOOD SVENSKA AB
Kemistvagen 10A, S-183 21 Taby, Sweden
TRIO-KENWOOD (AUSTRALIA) PTY, LTD.

30 Whiting St., Artarmon, N.S.W. 2064, Australia KENWOOD & LEE ELECTRONICS, LTD.
Room 501, Wang Kee Building, 5th Floor, 34-37, Connaught Road, Central, Hong Kong

PC BOARD/PARTS LIST



Ref. No.	Parts No.	Description	Re-
参照番号	部品番号	部品名/規格	marks 備考
KA-10	OO Refer to F for other	Parts List of Service Manual parts.	
Q51 -54 Q55 -58	V03-2837-10 V01-1186-10	2sc2837(0,Y) 2sa1186(0,Y)	
KA-1000	PS Refer to F	Parts List of Service Manual parts.	
•	C91-0023-05	CERAMIC 0.01UF AC250V	UM
-	c91-0023-05	CERAMIC 0.01UF AC250V	HX
-	c91-0079-05	CERAMIC 0.01UF AC125V	UE KP
POWER	SUPPLY (XOC)-213*-**)	<u> </u>
C1 -3	C91-0079-05	CERAMIC 0.01UF AC125V	ΚΈ
. C2	c91-0023-05	CERAMIC 0.01UF AC250V	u
C 4 C 5	C54-2710-39 C24-1247-77	CERAMIC 0.01UF P ELECTRO 470UF 16WV	
		TELEVINO TOOP TOUT	
F3	F05-5015-05	FUSE	Ε
F4 ,5	F05-5021-05	FUSE	K
F4 .5	F05-5024-05	FUSE	E
F6 .	F05-1021-05	FUSE	E
F6	F05-1023-05	FUSE	U
F6	F06-1021-05	FUSE	K
F7 .8	F05-5021-05	FUSE	ĸ
F7 .8	F05-5022-05	FUSE	U
F7 .8	F05-5024-05	FUSE	Ε
101 2B	J13-0054-05	FUSE HOLDER	E
101 2B	J13-0055-05	FUSE HOLDER	_
R 2	R47-1427-05	FL-PROOF RS27 J 3A	ŲΕ
51.4	054 4037 05	25.44	
RL1 RL1 .2	\$51-1027-05 \$51-1028-05	RELAY	UE K
			1
D1 -5	V11-0295-05	WO6B	

Ref. No.	Parts No.	Description	Re-
参照番号	部品番号	部品名/規格	marks 着考
PRE A	MP (X08-185	*-**)	
03 -7	830-0258-05	LAMP	1
C3 ,4 C5 ,6 C7 ,8 C9 ,10 C11 ,12	C71-1712-16 C49-2051-34 C49-2015-34 C48-1710-25 C90-0402-05	CERAMIC 120PF J MYLAR 0.051UF G MYLAR 0.015UF J POLYSTY 1000PF J ELECTRO 100UF 6.3WV	
c13 ,14 c15 ,16 c17 -20 c21 ,22 c23 ,24	C90-0532-05 C90-0404-05 C24-6510-71 C91-0100-05 C71-1710-15	ELECTRO 470UF 10WV NP-ELEC 10UF 35WV ELECTRO 100UF 35WV POLYSTY 1000PF J	
C25 ,26 C27 ,28 C29 ,30 C31 ,32	C71-1733-06 C71-1705-01 C24-1847-77 C49-2010-35 C24-1047-69	CERAMIC 33PF K CERAMIC 5PF C ELECTRO 470UF 63WV MYLAR 0.01UF J ELECTRO 47UF 10WV	
C37 ,38 C39 ,40 C41 ,42 C43 -46	C71-1718-16 C71-1712-16 C52-1722-26 C71-1768-06	CERAMIC 180PF K CERAMIC 120PF J CERAMIC 0.0022UF K CERAMIC 68PF K	E E E
201 1D 202 1D	E06-0510-05 E13-0429-05	DIN CONNECTOR PHONO JACK	
L1 ,2	L40-1511-43	INDUCTOR	E
R11 ,12 R13 ,14 R15 ,16 R17 ,18	R12-0502-05 R48-2107-03 R48-6282-95 R48-2619-23 R48-2511-13	TRIMMING POT, 100KB KN 107 F 2E RN 8.2 J 2E RN 61.9K F 2E RN 5.11K F 2E	

Codes for X00-213*-**

K: X00-2130-10 U: X00-2130-81 E: X00-2132-71 Codes for X08-185*-**

E: X08-1852-71



PARTS LIST

Ref. No.	Parts No.	Description	Re- marks	Ref. No.	Par
参照番号	部品番号	部 品 名/規 格	備考	参照番号	# 5
- 27 2/	2/6 /277 05	77		6117 14/	1.74
R23 ,24 R33 ,34	R48-6233-05 R43-1247-95	RN 33 J 2E FL-PROOF RD4.7 J 2E		C113,114 C115,116	C71-1
R35 ,36	R47-5533-15	FL-PROOF RS330 J 3D		C119-126	C46-1
R45	K47-5482-25	FL-PROOF RS8,2K J 3A	1 1	C128	C24-1
s 1	s90-0045-05	SLIDE SWITCH(PHONO 1-2)		C130	C24-1
52	S40-4033-15	PUSH SWITCH (MM-MC)		C131,132	C71-
s 3	590-0038-05	SLIDE SWITCH (REC-OUT)		C133	C24-0
S 4 S 5	\$42-5020-05 \$31-2059-05	PUSH SWITCH(INPUT SEL) SLIDE SWITCH(PHCNO IMP)		C135,136	C46-1
3,7	331-2039-03	SEIDE SWITCH (PHONO IMP)		C137,138 C139,140	C52-1
01 ,2	v11-4109-20	wz-290	1 1		ŀ
101 ,2 Q1 ,2	V30-0520-10 V09-0153-10	TAZO10A OR TAZO10 25K240(BL,V)		C141,142 C151	C71-1
33 1	V03-2167-10	2SC2167 OR 2SD762(0)		C152	C46-1
14	V01-0957-10	2SA957 OR 2SB724(0)		C157,158	C52-1
5 ,6	v09-0126-20	3044174603		C159	C26-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	V09-0125-20	25K117(GR)		301 20	E11-0
	V09-0144-60	25K163(L)		302 1D	E20-0
AUD	IO AMP (XOS)-161*-**)			
1 ,2	c71-1710-15	CERAMIC 100PF J	1	L1 .2	L39-0
3 ,4	C46-1718-46	MYLAR 0.18UF K		-	N10-2
5 .6 7 .8	C71-1722-15 C46-1727-35	CERAMIC 220PF J	}	1.,,	
:7 ,8 :11	C24-1010-79	MYLAR 0.027UF J ELECTRO 100UF 10WV	[R41 R42,43	R47-5
		. •		R44 -46	R47-
13 .14	c25-1722-47	LL-ELEC 0.22UF 50WV	-	R67 ,68	R47-5
15 ,16 17	C52-1756-16 C71-1747-05	CERAMIC 560PF K CERAMIC 47PF J	1 1	R69 ,70	R47-5
18	C71-1733-16	CERAMIC 330PF K		R71 ,72	R47-5
19 ,20	C25-1222-67	LL-ELEC 22UF 16WV		R75 .76	R47-5
34 22	63/ 1340-70	5,55700 40005 4400		R77 ,78	R43-1
21 ,22	C24-1210-79 C24-1210-69	ELECTRO 100UF 16WV	1 1	R79 ,80 .	R47-5
24	C24-0847-77	ELECTRO 470UF 6.3WV	1 1	1,000	^4/
25	c24-1210-69	ELECTRO 10UF 16WV		R99	R47-5
27 ,28	c71-1708-02	CERAMIC 8PF D		R101,102	R47-5
29 ,30	c26-1722+57	NP-ELEC 2.2UF 50WV		R102 R121,124	R47-5
31 ,32	C24-1722-57	ELECTRO 2.2UF 50WV		R122	R47-5
33 ,34	C24-1222-67	ELECTRO 22UF 16WV	1 1		
35 ,36 37 ,38	C46-1733-35 C46-1715-46	MYLAR 0.033UF J))	R137,138	R43-1
31 /30	(40-1/13-40	MYLAR 0.15UF K		K189,190 R229,230	R47-5
39 ,40	c46-1733-35	MYLAR 0.033UF J		R231,232	R43-1
41 ,42	C46-1715-46	MYLAR 0.15UF K		R233,234	R43-1
47 ,48	C46-1712-35 C71-1733-16	MYLAR 0.012UF J CERAMIC 330PF K		R235,236	F47-5
49 ,50	C46-1712-26	CERAMIC 330PF K Mylar 0.0012UF K		R237-242	R43-1
·		·		R253-256	R43-1
51 -54	C46-1756-35	MYLAR 0.056UF J		R259-262	R43-1
55 - 58	C46-1747-35 C26-1722-57	MYLAR 0.047UF J NP-ELEC 2.2UF 50WV		R271-278	R43-1
:61	C24-0822-79	ELECTRO 220UF 6.3WV		R279-290	R92-0
63	624-1410-79	ELECTRO 100UF 25WV		R307	R47-5
	62/ 3677 /7	54.567.00 77.45 400		R337-340	R43-1
65 67 68	C24-2033-67 C24-2033-77	ELECTRO 33UF 100WV	1 1	R343	R47=5
69 ,70	C24-2047-77	ELECTRO 470UF 100WV		R345	R47-5
71 ,72	c54-2710-39	CERAMIC 0.01UF P		V R 1	R06-5
73 -76	c90-0493-05	ELECTRO 10000UF 63WV		VR2	R06-5
77 -80	c54-2710-39	CERAMIC 0.01UF P		VR3 .4	R06-4
83 -86	c24-1822-51	ELECTRO 2.2UF 63WV		VR5 .6 VR7 .8	R12-0
90	C46-1768-25	MYLAR 0.0068UF J		1	1
91 -92	C46-1710-35	MYLAR 0.01UF J	1 1	-	\$90-0
93 ,94	c71-1708-02	CERAMIC 8PF D	1 1	RL1	\$51-2
101,102	c71-1710-15	CERAMIC 100PF J		\$2	S42-4 S40-1
105,106	c52-1782-16	CERAMIC 820PF K		\$6	S42-3
	C74 4702-04	CERAMIC 2PF C	1 1	3	1
107,108	C71-1702-01 C24-1047-69	ELECTRO 47UF 10WV	1 1	59	S90-0

Ref. No.	Parts No.	Description	Re-
参照番号	部品番号	部 品 名/規 格	marks 信号
C113,114 C115,116 C119-126 C128 C130	C71-1739-06 C55-1722-38 C46-1722-35 C24-1710-67 C24-1747-67	CERAMIC 39PF K CERAMIC 0.022UF Z MYLAR 0.022UF J ELECTRO 10UF 50WV ELECTRO 47UF 50WV	
C131,132 C133 C135,136 C137,138 C139,140	C71-1722-05 C24-0810-79 C46-1727-25 C52-1715-26 C71-1747-16	CERAMIC 22PF J ELECTRO 100UF 6.3WV MYLAR 0.0027UF J CERAMIC 0.0015UF K CERAMIC 470PF K	
C141,142 C151 C152 C157,158 C159	C71-1747-06 C24-1747-41 C46-1710-45 C52-1715-26 C26-1747-47	CERAMIC 47PF K ELECTRO 0.47UF 50WV MYLAR 0.1UF J CERAMIC 0.0015UF K LL-ELEC 0.47UF 50WV	
301 20 302 1D	E11-0081-05 E20-0814-05	PHONE JACK SPEAKER TERMINAL	
L1 ,2	L39-0085+05	COIL	
-	N10-2030-46	HEXAGON NUT (M3)	
R41 R42 ,43 R44 -46 R67 ,68 R69 ,70	R47-5522-15 R47-5510-25 R47-5433-25 R47-5547-95 R47-5410-05	FL-PROOF RS220 J 3D FL-PROOF RS1K J 3D FL-PROOF RS3.3K J 3A FL-PROOF RS4.7 J 3D FL-PROOF RS10 J 3A	
R71 ,72 R75 ,76 R77 ,78 R79 ,80 R81	R47-5547-95 R47-5556-15 R43-1233-95 R47-5433-95 R47-5456-15	FL-PROOF RS4.7 J 3D FL-PROOF RS560 J 3D FL-PROOF RD3.3 J 2E FL-PROOF RS3.3 J 3A FL-PROOF RS560 J 3A	
R99 R101,102 R102 R121,124 R122	R47-5518-25 R47-5447-05 R47-5412-15 R47-5510-25 R47-5582-15	FL-PROOF RS1.8K J 3D FL-PROOF RS47 J 3A FL-PROOF RS120 J 3A FL-PROOF RS1K J 3D FL-PROOF RS820 J 3D	
K137,138 K189,190 R229,230 R231,232 K233,234	R43-1322-25 R47-5456-15 R43-1216-15 R43-1256-05 R43-1218-15	FL-PROOF RD2.2K J 2H FL-PROOF RS560 J 3A FL-PROOF RD160 J 2E FL-PROOF RD56 J 2E FL-PROOF RD180 J 2E	KE K
R235,236 R237-242 R253-256 R259-262 R271-278	R47-5482-25 R43-1212-15 R43-1256-15 R43-1282-05 R43-1282-95	FL-PROOF RS8.2K J 3A FL-PROOF RD12O J 2E FL-PROOF RD56O J 2E FL-PROOF RD82 J 2E FL-PROOF RD8.2 J 2E	K
R279-290 R367 R337-340 R343 R345	R92-0203-05 R47-5418-35 R43-1282-25 R47-5510-25 R47-5456-25	METAL PLATE 0.47 5W FL-PROOF RS18K J 3A FL-PROOF RD8.2K J 2E FL-PROOF RS1K J 3D FL-PROOF RS5.6K J 3A	
VR1 VR2 VR3 ,4 VR5 ,6 VR7 ,8	R06-5062-05 R06-5063-05 R06-4051-05 R12-0502-05 R12-0077-05	POTENTIOMETER (BALANCE) POTENTIOMETER (VOLUME) POTENTIOMETER (TONE) TRIMMING POT. 100 TRIMMING POT. 100	
- RL1 S2 S5 S6	\$90-0046-05 \$51-2045-05 \$42-4015-15 \$40-1012-05 \$42-3047-15	REMOTE SWITCH SHAFT RELAY PUSH SW.(FIL,MODE,LOUD) PUSH SWITCH (FADER) PUSH SWITCH (TURN OVER)	
S 9	s90-0047 - 05	SLIDE SW. (SP SELECTOR)	

Codes for X09-161*-**

K: X09-1610-10

U: X09-1610-81

E: X09-1612-71



PARTS LIST

Ref. No.	Parts No.	Description	Re-
参照番号	部品番号	部品名/規格	marks
D1 -3 D4 D5 D6 D7 ,8	V11-0273-05 V11-4100-40 V11-4172-26 V11-4100-40 V11-4172-26	152076A WZ-120 WZ-032 WZ-120 WZ-032	
D9 010 D11 D13	V11-0273-05 V11-0076-05 V11-0271-05 V11-0273-05 V11-0273-05	152076A 151555 OR 152076 152076A 152076A	
D14 D15	v11-0247-05 v11-0273-05	WZ-100 152076A	
017 018	V11-0287-05 V11-4103-80	WZ-240 WZ-157	UE
019 020 021 023 -30	V11-4111-50 V11-0273-05 V11-4111-50 V11-0295-05 V11-0465-05	XZ-076 152076A XZ-076 W068 GP25D UR	K
D45 ,46	V11-2100-10 V11-5100-60 V11-5100-80 V11-0076-05 V11-0271-05	U05c(s) RB-151 STV-2H(w) 1s1555 OR 1s2076	
049 ,50 051 ,52 053 -56	V21-0013-05 V11-0076-05 V11-0271-05 V11-0273-05	STV-3H(Y) 1S1555 OR 1S2076 1S2076A	
D57 -68	v11-0076-05	151555 OR	
073 -75 077 ,78 079 080	V11-0271-05 V11-0273-05 V11-4111-40 V11-4103-60 V11-0076-05	152076 152076A Wz-350 Xz-051 151555 OR	KE
101 102 103 104	V11-0271-05 V30-0514-10 V30-0516-10 V30-1050-06 V30-0526-10	152076 AN5733 MBB4066B OR UP04066BC TC4027BP MB84069B OR UPD4069UBC	
105 ,6 q1 ,2 q3 ,4	V09-0145-30 V09-0127-50 V09-0144-40 V01-0733-50 V01-0999-10	UPA68H(L,M) 2SK105(H) OR 2SK163(N) 2SA733(A) OR 2SA999	
05 06	V03-0945-51 V03-2320-00 V03-2167-10 V04-0313-30	2SC945(A) OR 2SC2320 2SC2167 2SD313V-AL OR	
Q7 Q8	V01-0999-10 V03-0945-51 V03-2320-00	25A999 25C945(A) OR 25C2320	
Q9 Q10 Q21 -24	V01-0999-10 V01-0954-00 V03-1845-10	2SA999 2SA954 2SC1845(F/E)	
025 ,26	V03-0945-51 V03-2320-00	2sc945(A) OR 2sc2320	
927 - 30	V03-0098-05 V03-0444-05 V03-1923-00	2SC535 OR 2SC1674(L,K) OR 2SC1923	
Q31 - 34	V01-0999-10 V01-1127-30	25A999 OR 25A1127NC	

	Parts No.	Description	Re-
参照番号	部 品 書 号	部品名/規格	marks
Q35 -38	v01-0912-30	25A912 OR 25A1124	
939 .40	V03-1885-20 V03-2632-10	25C1885 OR	
041 ,42	V03-2032-10	25C2632 2SC945(A) OR	
043 ,44 045 ,46 047 ,48	v03-2320-00 v03-2631-10 v01-1123-10 v03-2275-20 v03-2591-10	2sc2320 2sc2631(Q,R,s) 2sA1123(Q,R,s) 2sc2275A OR 2sc2591(Q,R)	
949 ,50 959 ,60 961 ,62 963 ,64	V01-09810 V01-1111-10 V01-0992-10 V01-0198-05 V03-1775-00	2SA985A GR 2SA1111(Q,R) 2SA992(F,E) 2SA872 2SC1775	
266 281 .82 283 .84	V03-1845-10 V03-2275-20 V03-2591-10 V01-0985-10 V01-1111-10	2sc1845(F,E) 2sc2275A OR 2sc2591(Q,R) 2sa985A OR 2sa1111(Q,R)	
185 ,86 H1 ,2	V01-0992-10	2SA992(F,E) 5TP-41L	U
	UB (X13-3020		
1 ,2	C52-1747-26 C24-1447-57	CERAMIC 0.0047UF K ELECTRO 4.7UF 25WV	T
7 ,8	R47-5522-15	FL-PROOF RS220 J 30	1 1
21 .2	v01-0992-00	2SA992	

A product of

TRIO-KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 15Ó Japan

KENWOOD ELECTRONICS, INC.

1315 E Watsoncenter Rd. Carson, California 90745, U.S.A. 75 Seaview Drive, Secaucus, New Jersey 07094, U.S.A. 1098 North Tower Lane, Bensenville, Illinois 60106, U.S.A. TRIO-KENWOOD CANADA INC.

1070 Jayson Court Mississauga, Ontario Canada L4W 2V5 TRIO-KENWOOD ELECTRONICS, N.V.

TRIO-KENWOOD ELECTRONICS, N.Y.

TRIO-KENWOOD ELECTRONICS, GmbH

Rudolf-Braas-Str. 20, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A.

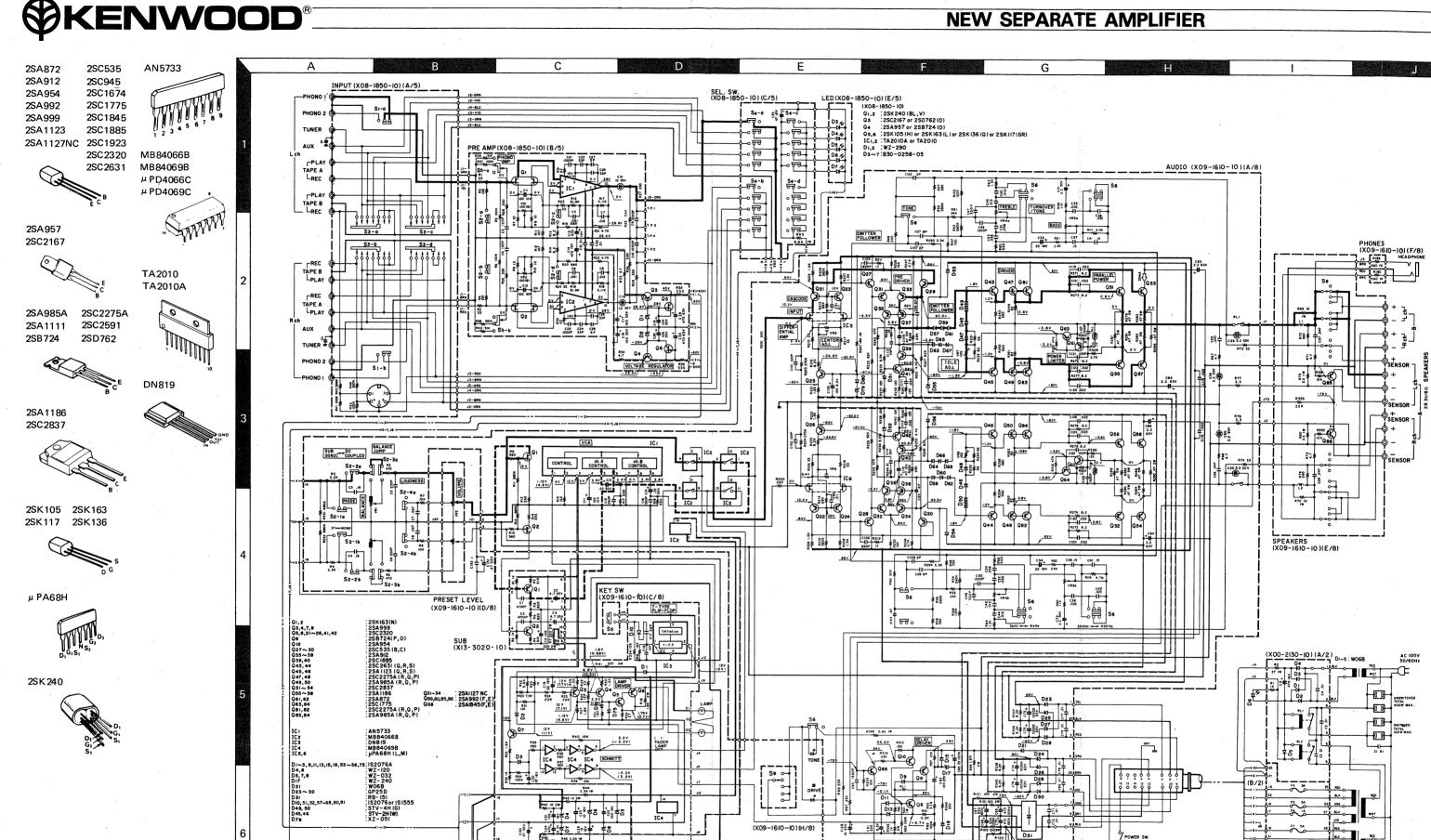
5, Boulevard Ney, 75018 Paris, France TRIO-KENWOOD SVENSKA AB

Kemistvagen 10A, 183-21 Taby, Sweden

Kemistvagen 1UA, 183-21 Taby, Sweden TRIO-KENWOOD AG Unterboesch 6331 Huenenberg/ZUG Switzerland TRIO-KENWOOD (AUSTRALIA) PTY. LTD. 30 Whiting St., Artarmon, N.S.W. 2064, Australia KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 5th Floor, 34-37, Connaught Road Central, Hong Kong © 1981-6 PRINTED IN JAPAN B51-0756-10 (G) 2143





Q1,2 IC1,2 VR1,2,Q7,Q1,2 Q67, IC4,Q3 D2,3 D4,7

03,4 03,6 04 05 06 ICI IC3,IC4 IC2 D6,D81,D8,D75,D5, D10 D1, D1,2

KA-1000(K)PS

KA-1000(K)

D6 D5 D1~4

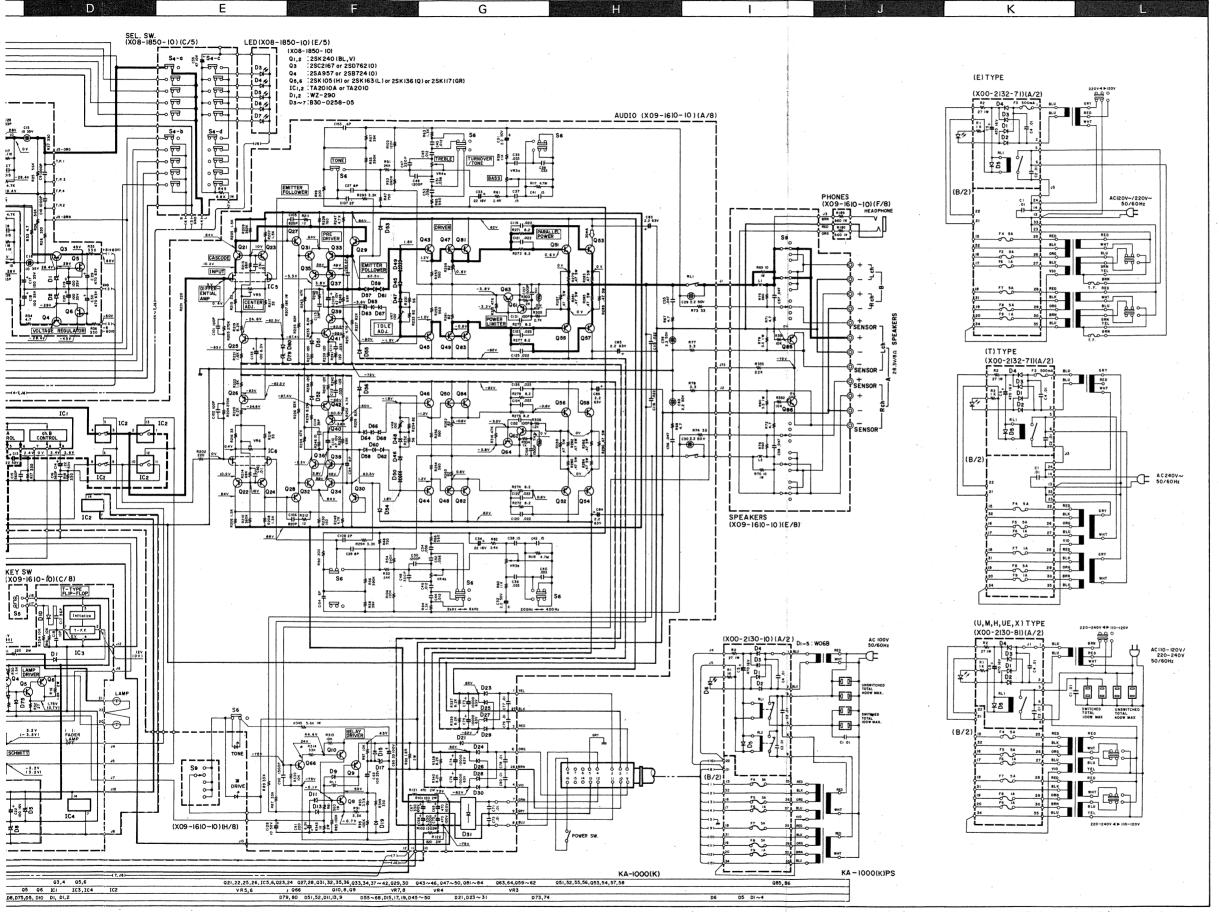
Q51,52,55,56,Q53,54,57,58

 021,22,25,26,1C5,6,023,24
 027,28,031,32,35,36,033,34,37 ~42,029,30
 043~46,047~50,081~84
 063,64,059~62

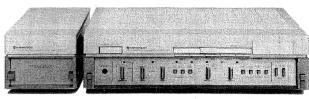
 VR5,6
 , 066
 010,8,09
 VR7,8
 VR4
 VR3

 D79,80
 D51,52,011,0,9
 055~68,015,17,19,045~50
 021,023~31
 073,

NEW SEPARATE AMPLIFIER







SPECIFICATIONS

POWER OUTPUT

100 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.005% total harmonic distortion.

Both Channels Driven	
Total Harmonic Distortion (20 Hz	1,000 Hz
	0.005% at rated power into 8 ohms
AUX input to SPEAKER output	0.005% at 1/2 rated power into 8 onms
DUONO : CDEAVED	8 ohms
PHONO input to SPEAKER output	t0.007% at rated power with VOLUME - 20 dB
the state of the state of	0.005% at rated power into 8 ohms
	0.005% at rated power into 8 onms
(60 Hz:7 kHz = 4:1)	600 1100 11 11 0 11
Damping Factor	600, at 100 Hz into 8 onms
Transient Response Rise Time	0.0
Slew Rate	± 120 V/µS
Frequency Response	DC to 400 kHz, +0 dB, -3 dB
	18 Hz to 400 kHz, +0 dB, -3 dB
Speaker Impedance	
Input Sensitivity/Impedance	Accept 4 onms to 16 onms
input Sensitivity/impedance	2.5 mV/33 k ohms, 47 k ohms and
Phono (IVIVI)	100 k ohms
Phono (MC)	0.2 mV/100 ohms
Tuner, AUX, Tape A, B	
Signal-to-Noise Ratio (IHF. A)	150 mv/47 k onms
Phono (MM)	97 dB for 2.5 mV input
FIIONO (MIM)	93 dB for 5.0 mV input
	99 dB for 10 mV input
Phono (MC)	67 dB for 0.2 mV input
	73 dB for 0.4 mV input
Tuner, AUX, Tape A, B	105 dB for 150 mV input
Maximum Input Level	
Phone (MM)	270 mV (RMS), T.H.D. 0.003% at
	1,000 Hz
Phono (MC)	15 mV (RMS), T.H.D. 0.003% at
	1,000 Hz
Output Level/Impedance	
Tape REC (Pin)	150 mV/330 ohms
(DIN)	30 mV/80 k ohms
Phono Frequency Response	RIAA standard curve ± 0.2 dB
	(20 Hz to 20,000 Hz)
Loudness Control	+ 10 dB at 100 Hz
2044	(at -30 dB VOLUME Level)
Tone Control	(at 00 ab 1020m2 2010)
	± 10 dB, at 50 Hz
	± 10 dB, at 100 Hz
	± 10 dB, at 10 kHz
	± 10 dB, at 20 kHz
Subsonic Filter	
(DC COUPLED at OFF)	18 Hz. 6 dB/oct
GENERAL	
Power Consumption	5.7(UL/CSA)
	800 watts (IEC)
AC Outlets	Switched 2, Unswitched 2
Dimensions Amplifier (KA-10	000) Power Supply (KA-1000-PS)
W 440 mm (17-5/	16") 140 mm (14-1/2")
H 123 mm (4-27/	32") 123 mm (4-27/32")
D 375 mm (14-3/	4") 358 mm (14-3/32")
Net Weight 14.4 kg (31.7 ll	000) Power Supply (KA-1000-PS) 16") 140 mm (14-1/2") 32") 123 mm (4-27/32") 4") 358 mm (14-3/32") 8.0 kg (17.6 lb)

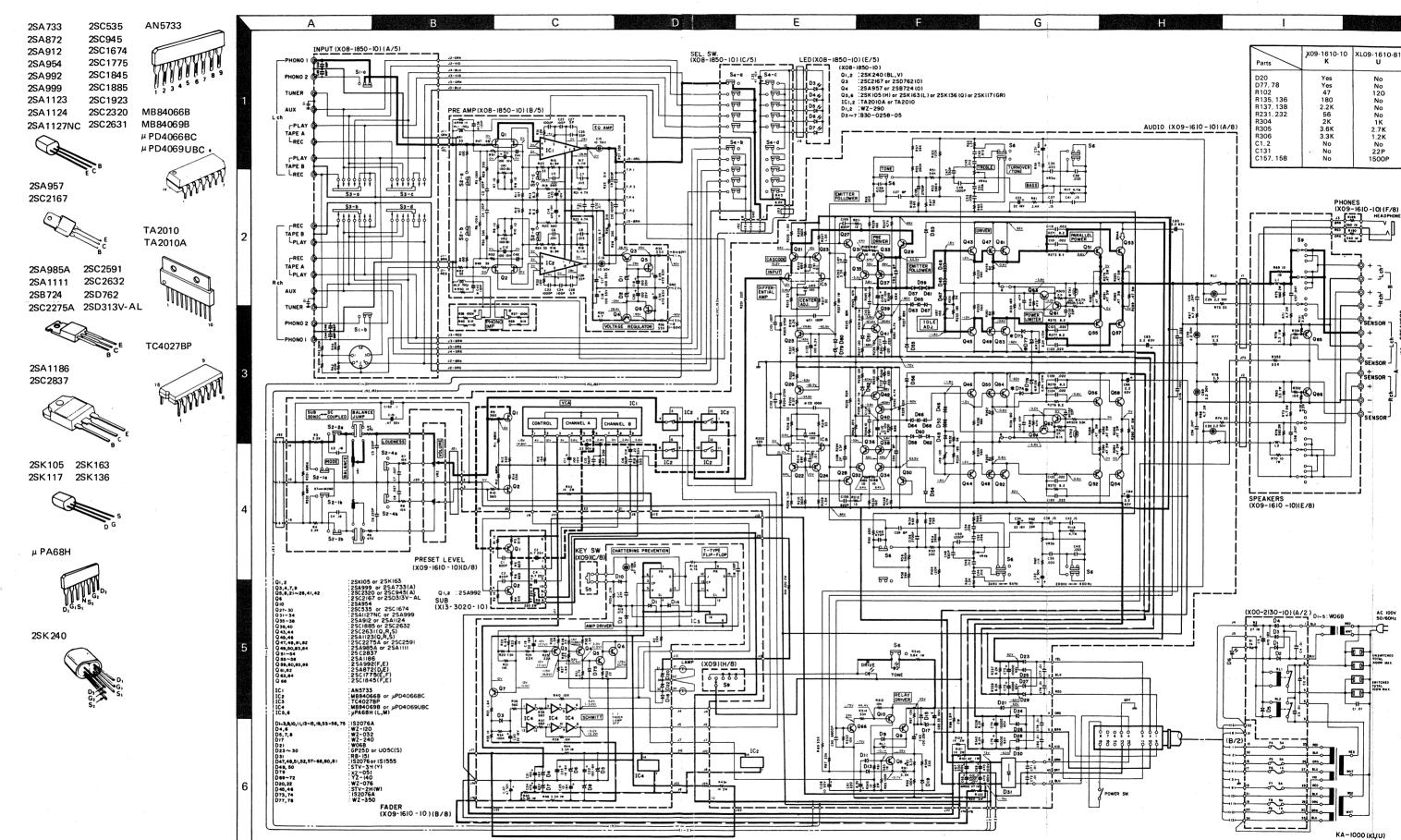
 Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

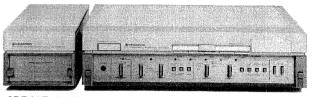




D¢ voltaç



REVISED EDITION



SPECIFICATIONS

POWER OUTPUT

100 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.005% total harmonic distortion.

	lz with no m distortion.	ore	than	0.005%	tota
Both Channels D)riven	115	+ 115 wa	atts 8 ohms at	
		1,00			
	Distortion (20 Hz to				
AUX input to	SPEAKER output				
				2 rated power	into
		8 ohi			
PHONO input	to SPEAKER output				1
		VOL	JME - 20	O GB	
	Distortion	0.00	5% at ra	ted power into	8 ohms
(60 Hz:7 kH		~~~			
		600,	at 100 i	Hz into 8 onms	;
Transient Respo	onse,		_		
		± 12	O V/μS		
Frequency Resp	onse ED at ON)	DC +	400 66	1- 10 dp 3	AD /
	D at OFF)				
	Ince				- 3 ab
Input Sensitivity		ACCE	pt 4 oilli	is to 10 onins	
	//iiiipeuaiice	25,	nV/33 k	ohme 47 k oh	me and
r nono (mm)			k ohms	0111113, 47 K 01	mis and
Phone (MC)		02,	n\//100	ohme	
	, Tape A, B				
Signal-to-Noise		. 1 30	111.V/-T/ N	. Ormiis	
Phono (MM)		87 d	B for 2 5	mV innut	
1 110110 (141141)		93 4	B for 5.0	mV input	
				mV input	
Phono (MC)		67 d	B for 0.2	mV input	
		73 d	B for 0.4	mV input	
Tuner, AUX	, Tape A, B	.105	dB for 1	50 mV input	
Maximum Input			u	put	
Phono (MM)		270	mV (RM	S), T.H.D. 0.00	03% at
		1.00	O Hz		
Phono (MC)	.,	.15 m	V (RMS)	. T.H.D. 0.003	3% at
		1,00	0 Hz		
Output Level/In	npedance				
	in)	150	mV/330	ohms	
(0	OIN)	30 m	1V/80 k d	ohms	
Phono Frequenc	y Response	RIAA	standard	d curve ±0.2	dB
•		(20 H	dz to 20,	000 Hz)	
Loudness Contr	ol	+ 10	dB at 1	OO Hz	
2044				OLUME Level)	
Tone Control		,		0202 2010.,	
	0 Hz	. ± 10	dB, at 5	O Hz	
	0 Hz				
	kHz				
	kHz				
Subsonic Filter (DC COUPL)	ED at OFF)	.18 H	lz, 6 dB/d	oct	
GENERAL					
	ption	5 7/1	II ICCA		
rower consum	puon		watts (IE	:C)	
AC Outlos		Shrip	walls (It	Inewitched 2	
Dimensions	Amplifier (KA-1000	.5wit	Power C	Supply (KA-100	M-Der
\A/	Amplifier (KA-1000 440 mm (17-5/16*	,	140 mg	114-1/2")	, U-F 3)
- VV	123 mm (4-27/32*	'\	123 mm	14-1/2/	

* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

123 mm (4-27/32")

358 mm (14-3/32")

8.0 kg (17.6 lb)

123 mm (4-27/32")

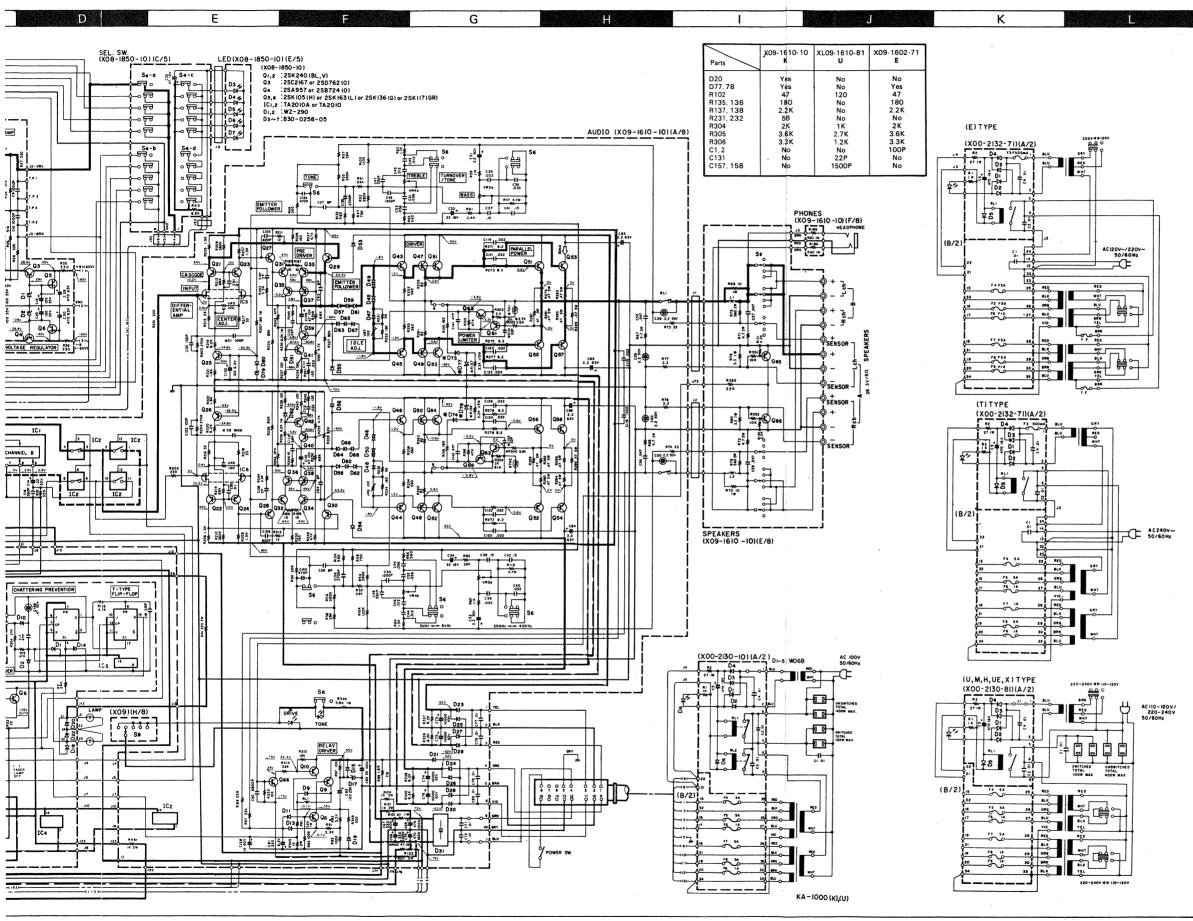
375 mm (14-3/4")

14.4 kg (31.7 lb)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.



DC voltages are measured by a VOM with 25 $k\,\Omega$ /V input impedance.